LAND APPLICATION SITE

WARREN C BAIN SITE

DWWCB 33-36,38-44

DINWIDDIE COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 1-7-13 between BAIN PROPERTIES LLC referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in DINWIDDIE Co. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
TM 59, P2			
TM 59, P3			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:
- ☐ The Landowner is the sole owner of the properties identified herein.
- ☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids	Water treatment residuals	Food processing waste	Other industrial sludges
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

Bain Properties LLC — Warren D. Bain — Manager

Landowner – Printed Name, Title | Signature | Mailing Address & Phone Number

Permittee:

Recyc Systems, Inc the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically, prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement.)

Permittee – Authorized Representative
Printed Name

Signature

PO Box 562 Remington, Virginia 22734
Mailing Address

Rev. 3-13-2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Dinwiddie

Landowner: Bain Properties LLC

Landowner Site Management Requirements:

I the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site.

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site unless requested by the Permittee until at least 30 days after land application at that site is completed.

2. Public Access
   a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
   b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols.
   c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:
   a. Food crops with harvested parts that touch the biosolids soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
   b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolics remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
   c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
   d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids.
   e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:
   Following biosolids application to pasture or hayland sites:
   a. Meat producing livestock shall not be grazed for 30 days.
   b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
   c. Other animals shall be restricted from grazing for 30 days.

5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolics and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with § 10.1-104.2 of the Code of Virginia.

6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Warren B. Bain Manager 1-7-13

Landowner's Signature Date

Farm Operator Signature Mailing Address & Phone Number

RECYC SYSTEMS, INC

PART D-VI BIOSOLIDS APPLICATION AGREEMENT

This biosolids application agreement is made on 8-27-12 between CHIP + PRESTON BAIN, referred to here as "landowner", and Recyc Systems, Inc, referred to here as the "Permittee".

Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as _____ ("landowner's land"). Permittee agrees to apply and landowner agrees to comply with certain permit requirements following application of biosolids on landowner's land in amounts and in a manner authorized by (VPA) (VPDES) permit number _____ which is held by the Permittee.

Landowner acknowledges that the appropriate application of biosolids will be beneficial in providing fertilizer and soil conditioning to the property and consents to the application of biosolids on his property. Moreover, landowner acknowledges having been expressly advised that, in order to protect public health:

1. Public access to landowner's land upon which biosolids have been applied should be controlled for at least 30 days following any application of biosolids and no biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;

2. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation. Other food crops, feed crops and fiber crops shall not be harvested for 30 days after the application of biosolids;

3. Following biosolids application to pasture or hayland sites, meat producing livestock should not be grazed or fed chopped foliage for 30 days and lactating dairy animals should be similarly restricted for a minimum of 60 days. Other animals should be restricted from grazing for 30 days;

4. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia to be supplied to the landowner by the permittee at the time of application of biosolids to a specific permitted site;

5. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

6. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.

The landowner agrees to allow county officials access to the area of the property permitted for biosolids, whenever necessary, to complete site inspections related to the scheduled biosolids program.

Permittee agrees to notify landowner or landowner designee of the proposed schedule for biosolids application and specifically prior to any particular application to landowner's land. This agreement may be terminated by either party upon written notice to the address specified below.

Chip Bain
Landowner Signature:

Chip Bain
Landowner Print Name

↖ BOTH OWNER/ ↙ OPERATOR

Preston Bain
Farm Operator Signature:

Preston Bain
Farm Operator Print Name:

Permittee:
Recyc Systems, Inc.

Mailing Address:
14608 SLEEPY HOLLOW RD
DINWIDDIE VA. 23841
Phone: 804-469-9476
(c) 804-720-0309

Mailing Address:
14608 SLEEPY HOLLOW RD
DINWIDDIE VA. 23841
Phone: 804-469-9476
(c) 804-720-0309

Mailing Address:
P.O. Box 562
Remington Virginia 22734
(540) 547-3300

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 3-1-13 between PRESTON C. BAIN, II, DONNA H. BAIN, WARREN B. BAIN, CYNTHIA BAIN referred to here as "Landowner", and Recyc Systems, Inc referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:
The Landowner is the owner of record of the real property located in DINWIDDIE, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:
☐ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids	Water treatment residuals	Food processing waste	Other industrial sludges
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

Preston C. Bain IV Donna H. Bain Warren B. Bain Cynthia Bain

Landowner – Printed Name, Title   Signature   Mailing Address & Phone Number

Permittee:
Recyc Systems, Inc the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

[signature]   PO Box 562 Remington, Virginia 22734

Permittee – Authorized Representative Printed Name   Signature   Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: DINWIDDIE

Landowner: PRESTON C. BAIN, II, DONNA H. BAIN
WARREN B. BAIN, CYNTHIA BAIN

Landowner Site Management Requirements:

I the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolics, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access
   a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
   b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols.
   c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:
   a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
   b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
   c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
   d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
   e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:
   Following biosolids application to pasture or hayland sites:
   a. Meat producing livestock shall not be grazed for 30 days.
   b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
   c. Other animals shall be restricted from grazing for 30 days.

5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolics and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

6. Tobacco, because it has been shown to accumulate cadmium should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Warren B. Bain

Preston C. Bain II Donna H Bain Cynthia Bain 3-1-13

Landowner's Signature Date

Farm Operator Signature Mailing Address & Phone Number

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: Recyc Systems, Inc. Site Name: Warren C. Bain

County or City: Dinwiddie

Please Print Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
TM59,P2 & 3	Bain Properties, LLC
TM71,P14	Preston C. Bain &Warren B. (Chip) Bain Donna H Bain Cynthia C Bain
TM93, P1A	Preston C. Bain & Warren B. (Chip) Bain

FARM DATA SHEET

SITE NAME:	Warren C. Bain Site	**COUNTY:**	Dinwiddie
OWNER:	See Attached	**OPERATOR:**	Chip Bain
OWNER'S ADDRESS:		**OPERATOR'S ADDRESS:**	14608 Sleepy Hollow Road Dinwiddie, VA 23841
OWNER'S TELEPHONE:	804-469-9476	**OPERATOR'S TELEPHONE:**	804-469-9476
GENERAL FARM TYPE:	Row crop	**CELL PHONE:**	804-720-0309
# CATTLE:	None	**EMAIL:**	
LAGOON or SLURRY:	None	**LATITUDE/ LONGITUDE:** **33-37**	37° 04′ 08″ 77° 32′ 11″
TOPO QUAD:	Dinwiddie	**LATITUDE/ LONGITUDE:** **38-43**	37° 01′ 12″ 77° 34′ 08″
COMMENTS:		**LATITUDE/ LONGITUDE:** **44**	36° 57′ 27″ 77° 36′ 20″
Field 37 not available to spread due to issue with adjacent property owner.			
TM 59, P 2&3 deeded to Bain Properties LLL from Bain Brothers LLC, Warren C. Bain, Preston C. Bain, II & Warren B. (Chip) Bain on 11-28-12.			
Preston C. Bain and Preston C. Bain, II are same person. Warren B. Bain is Chip Bain.			

ST 3/7

Warren C. Bain Site

Dinwiddie County

Owner List

Warren B. (Chip) Bain

14608 Sleepy Hollow Road — TM 71, P14

Dinwiddie, VA 23841 — TM93, P1A

804-469-9476

(c) 804-720-0309

Preston C. Bain,II

14809 Hardiways Mill Road — TM 93, P1A

Dinwiddie, VA 23841 — TM71,P14

804-469-7232

Bain Properties, LLC — TM 59, P2,3

14608 Sleepy Hollow Road

Dinwiddie, VA 23841

804-469-9476

RECYC SYSTEMS, INC
FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
DWWCB 33	14.0	12A(Dec-Mar) 12B(Dec-Mar)	-	-	-	CU28	TM59,P2	T2096 Field 79
DWWCB 34	11.8	12A(Dec-Mar) 12B(Dec-Mar)	-	-	-	CU28	TM59,P2	T2096 Fields 80,83
DWWCB 35	23.8	12A(Dec-Mar) 12B(Dec-Mar)	-	-	-	CU28	TM59,P2	T2096 Fields 35,36,82
DWWCB 36	51.3	12A,12B(Dec-Mar) 14A,16A(Nov-Apr)	-	-	-	CU28	TM59,P3	T2136 Field 45
DWWCB 38	11.9	12B(Dec-Mar)	-	-	-	CU24	TM71,P14	T2068 Field 61
DWWCB 39	9.3	12B(Dec-Mar)	-	-	-	CU24	TM71,P14	T2068 Field 60
DWWCB 40	6.9	12B(Dec-Mar)	-	-	-	CU24	TM71,P14	T2068 Fields 62,63
DWWCB 41	10.5	12B(Dec-Mar) 17A(Nov-Mar)	-	-	-	CU24	TM71,P14	T2068 Fields 65,66
DWWCB 42	14.2	12B(Dec-Mar)	-	-	-	CU24	TM71,P14	T2068 Fields 67,69
DWWCB 43	2.0	12B(Dec-Mar)	-	-	-	CU24	TM71,P14	T2068 Field 59
DWWCB 44	11.0	-	-	-	-	CU23	TM93,P1A	T5326 Field 0
TOTAL ACRES IN SITE	166.7							

Report Number: 12-249-0626
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
WARREN C BAIN/DWWCB
DINWIDDIE CO

Submitted By: CHARLES CARLO
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 09/05/2012 **Date Of Analysis:** 09/06/2012 **Date Of Report:** 09/07/2012

Sample ID / Field ID	Lab Number	Organic Matter			Phosphorus			Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Mehlich 3 Rate	Reserve ppm	Reserve Rate	K ppm	K Rate	Mg ppm	Mg Rate	Ca ppm	Ca Rate	Na ppm	Na Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
38 DWWCB 38	17595	1.2	L	69	81	H			87	M	109	H	435	M			6.9	6.93	0.0	3.4
39 DWWCB 39	17596	1.2	L	69	92	H			80	M	95	H	428	M			6.6	6.91	0.2	3.3
40 DWWCB 40	17597	1.2	L	69	100	H			108	H	84	H	381	M			6.3	6.90	0.3	3.2
41 DWWCB 41	17598	1.3	L	72	120	VH			62	L	74	H	298	M			5.7	6.87	0.6	2.9
42 DWWCB 42	17599	1.7	L	79	138	VH			102	H	99	H	440	M			6.2	6.88	0.5	3.7

Sample ID / Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
38 DWWCB 38	6.6	26.7	64.0		1.4																			
39 DWWCB 39	6.2	24.0	64.8		6.0																			
40 DWWCB 40	8.7	21.9	59.5		10.6																			
41 DWWCB 41	5.5	21.3	51.4		20.9																			
42 DWWCB 42	7.1	22.3	59.5		12.3																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A. Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-249-0626
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
WARREN C BAIN/DWWCB
DINWIDDIE CO

Submitted By: CHARLES CARLO
Farm ID:

Date Received: 09/05/2012
Date Of Report: 09/07/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
38 DwwcB 38	Adjust pH to 6.8	0	0.0				0						
39 DWWCB 39	Adjust pH to 6.8	0	1.0				0						
40 Dwwcb 40	Adjust pH to 6.8	0	1.0				0						
41 DkWCB41	Adjust pH to 6.8	0	1.5				6						
42 DkWCB 42	Adjust pH to 6.8	0	1.3				0						

Comments:

Sample(s) : 41 Crop: Adjust pH to 6.8

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

Pauric McGroary

Pauric McGroary

Report Number: 12-249-0626
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
WARREN C BAIN/DWWCB
DINWIDDIE CO

Submitted By: CHARLES CARLO
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 09/05/2012 **Date Of Analysis:** 09/06/2012 **Date Of Report:** 09/07/2012

Sample ID / Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Mehlich 3 Rate	Reserve ppm	Reserve Rate	K ppm	K Rate	Mg ppm	Mg Rate	Ca ppm	Ca Rate	Na ppm	Na Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
43 DWWCB 43	17600	1.8	L	81	141	VH			113	H	97	H	407	M			5.9	6.87	0.6	3.8

Sample ID / Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	NO_3N Rate	S ppm	S Rate	Zn ppm	Zn Rate	Mn ppm	Mn Rate	Fe ppm	Fe Rate	Cu ppm	Cu Rate	B ppm	B Rate	SS ms/cm	SS Rate	Cl ppm	Cl Rate	Al ppm
43 DWWCB 43	7.6	21.3	53.6		17.1																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 12-249-0626
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
WARREN C BAIN/DWWCB
DINWIDDIE CO

Submitted By: CHARLES CARLO
Farm ID:

Date Received: 09/05/2012
Date Of Report: 09/07/2012

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
43 DWWCB43	Adjust pH to 6.8	0	1.5				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

Pauric McGroary

Pauric McGroary

Lab ID: 11-41055 14-OCT-11 DINWIDDIE / 053

Virginia Cooperative Extension
Soil Test Report

Dinwiddie County Office
P.O. Box 399
Dinwiddie, VA 23841-0399
-469-4514

Virginia Tech Soil Testing Laboratory
145 Smyth Hall (0465)
Blacksburg, VA 24061
www.soiltest.vt.edu

SEE ENCLOSED NOTES: 1 2

OWNER
BAIN CHIP
14608 SLEEPY HOLLOW RD

DINWIDDIE, VA 23841

COPY FOR 2096

SAMPLE HISTORY

Sample ID	Field ID	LAST CROP		LAST LIME APPLICATION		SOIL INFORMATION				
		Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
20962	DWWCB 33,34,35	Corn (Grain), No Till (1)	100 BU							II

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	131	66	710	105	1.9	5.2	0.4	14.2	0.2	
Rating	VH	L+	L+	M	SUFF			SUFF	SUFF	

Analysis	Soil pH	Buffer Index	Est. CEC (meq/100g)	Acidity (%)	Base Sat (%)	Ca Sat. (%)	Mg Sat. (%)	K Sat. (%)	Organic Matter (%)
Result	6.8	6.58	2.3	0.9	99.1	76.7	18.7	3.7	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Wheat (6)

Lime, Tons/Acre		Fertilizer, lb/A		
Amount	Type	N	P205	K20
0		100	0	80

890. Soil Survey map unit information was not provided or did not match our computer database, neither was a field Yield estimate given. As a result only generalized fertilizer recommendations could be made. Field specific and more scientifically- based recommendations can be provided if soil map unit information is included in the future. Contact your extension agent to learn how to obtain available soil survey information for your farm.

810. AT PLANTING, apply 15-30 lbs N/A. If in-field nitrate test was run and NO3 in top 6 inches is greater than 30 ppm, then no N is needed. DECEMBER-JANUARY, if October - December rainfall was heavy, there are less than 3 tillers/plant, crop is pale green and there are several days in Jan-Feb with temperatures greater than 50F, apply 30 lb N/A. Otherwise, apply no N. FEBRUARY-EARLY MARCH, SINGLE N application, count your tillers. If there are less than 100 tillers/sq. ft., apply 80 lb N/A. If there are more than 100 tillers/sq. ft., apply 30-40 lb N/A.

990. We are trying to improve our service. PLEASE take a moment to complete our brief, anonymous customer survey at tinyurl.com/soiltestsurvey

Lab ID: 12-16566 2012-02-24 DINWIDDIE / 053

Virginia Cooperative Extension
Soil Test Report

Dinwiddie County Office
P.O. Box 399
Dinwiddie, VA 23841-0399
null-469-4514

Virginia Tech Soil Testing Laboratory
145 Smyth Hall (0465)
Blacksburg, VA 24061
www.soiltest.vt.edu

SEE ENCLOSED NOTES: 1 2 4

OWNER
BAIN CHIP
14608 SLEEPY HOLLOW RD

DINWIDDIE, VA 23841

COPY FOR

2136

SAMPLE HISTORY

Sample ID	Field ID	LAST CROP		LAST LIME APPLICATION		SOIL INFORMATION				
		Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
21365	Dwwcb 36	Corn (Grain), No Till (1)								II

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	67	148	788	82	2.5	4.2	0.3	15.9	0.2	
Rating	H	M	M-	M-	SUFF	DEF	SUFF	SUFF	SUFF	

Analysis	Soil pH	Buffer Index	Est.-CEC (meq/100g)	Acidity (%)	Base Sat. (%)	Ca Sat. (%)	Mg Sat. (%)	K Sat. (%)	Organic Matter (%)
Result	6.1	6.26	3.3	25.0	75.0	59.1	10.2	5.7	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Soybeans (10)

Lime, TONS/AC		Fertilizer, lb/A		
Amount	Type	N	P205	K20
1	AG	0	30	60

890. Soil Survey map unit information was not provided or did not match our computer database, neither was a field Yield estimate given. As a result only generalized fertilizer recommendations could be made. Field specific and more scientifically- based recommendations can be provided if soil map unit information is included in the future. Contact your extension agent to learn how to obtain available soil survey information for your farm.

990. We are trying to improve our service. PLEASE take a moment to complete our brief, anonymous customer survey at tinyurl.com/soiltestsurvey

653. Manganese may be needed; apply if deficiency symptoms occur. See Note 4 (enclosed) for method of application.

Lab ID: 12-17366 2012-02-24 DINWIDDIE / 053

Virginia Cooperative Extension

Soil Test Report

Dinwiddie County Office
P.O. Box 399
Dinwiddie, VA 23841-0399
null-469-4514

Virginia Tech Soil Testing Laboratory
145 Smyth Hall (0465)
Blacksburg, VA 24061
www.soiltest.vt.edu

SEE ENCLOSED NOTES:
1 2

OWNER
BAIN CHIP
14608 SLEEPY HOLLOW RD

DINWIDDIE, VA 23841

COPY FOR

Mechanicsville
5326

SAMPLE HISTORY

Sample ID	Field ID	LAST CROP		LAST LIME APPLICATION		SOIL INFORMATION				
		Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
53262	DWC83 44	Soybeans (10)	50 BU							IIb

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	90	136	1223	71	2.3	5.2	1.0	21.3	0.3	
Rating	H+	M	M+	L+	SUFF	SUFF	SUFF	SUFF	SUFF	

Analysis	Soil pH	Buffer Index	Est-CEC (meq/100g)	Acidity (%)	Base Sat. (%)	Ca Sat. (%)	Mg Sat. (%)	K Sat. (%)	Organic Matter (%)
Result	7.5	N/A	3.5	N/A	100.0	86.7	8.3	5.0	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Corn (Grain), No Till (1)

Lime, TONS/AC		Fertilizer, lb/A		
Amount	Type	N	P205	K20
0		140	20	60

890. Soil Survey map unit information was not provided or did not match our computer database, neither was a field Yield estimate given. As a result only generalized fertilizer recommendations could be made. Field specific and more scientifically- based recommendations can be provided if soil map unit information is included in the future. Contact your extension agent to learn how to obtain available soil survey information for your farm.

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801. The most effective method of application of low rates of phosphate and potash is in a starter (planter) fertilizer placed in a band 2 inches to one side and 2 inches below the seed. Total amount of nitrogen plus potash should not exceed 80 lbs/A.

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2013-Summer, 2014)
Warren C. Bain
Planner: Recyc Systems, Inc.

Tract: 2068 Location: Dinwiddie
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
61/DWWCB 38(N)	12/12	2013	Corn (grain)	140-30-60	20/0				120-30-60	N/A			
60/DWWCB 39(N)	9/9	2013	Soybeans(FSS)	0-30-60	0/0				0-30-60	N/A			
62,63/DWWCB 40(N)	7/7	2013	Corn (grain)	130-30-40	20/0				110-30-40	N/A			
65,66/DWWCB 41(N)	11/11	2013	Corn (grain)	130-20-80	20/0				110-20-80	N/A			
67,69/DWWCB 42(1P)	14/14	2013	Corn (grain)	130-0-60	20/0				110-0-60	49			
59/DWWCB 43(1P)	2/2	2013	Corn (grain)	140-0-40	20/0				120-0-40	51			
0/DWWCB 44(N)	11/11	2013	Corn (grain)	120-60-60	20/0				100-60-60	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2096 Location: Dinwiddie
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
80,83/DWWCB34(1P)	12/12	2013	Soybeans (FS)	0-0-80	0/0				0-0-80	36			
79/DWWCB 33(1P)	14/14	2013	Corn (grain)	140-0-80	20/0				120-0-80	53			
35,36,82/DWWCB 35(1P)	24/24	2013	Corn (grain)	140-0-80	20/0				120-0-80	53			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2136 Location: Dinwiddie
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
45/DWWCB 36(N)	51/51	2013	Corn (grain)	140-40-30	20/0				120-40-30	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress
Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
2068	DWWCB 38	12	2012-Su	H (81 P ppm)	M (87 K ppm)	A&L Mill	6.9		
2068	DWWCB 39	9	2012-Su	H (92 P ppm)	M (80 K ppm)	A&L Mill	6.6		
2068	DWWCB 40	7	2012-Su	H (100 P ppm)	M+ (108 K ppm)	A&L Mill	6.3		
2068	DWWCB 41	11	2012-Su	H+ (120 P ppm)	M- (62 K ppm)	A&L Mill	5.7		
2068	DWWCB 42	14	2012-Su	VH (138 P ppm)	M (102 K ppm)	A&L Mill	6.2		
2068	DWWCB 43	2	2012-Su	VH (141 P ppm)	M+ (113 K ppm)	A&L Mill	5.9		
2068	DWWCB 44	11	[No Test]						
2096	DWWCB 34	12	2011-Fa	VH (131 P ppm)	M- (66 K ppm)	A&L Mill	6.5		
2096	DWWCB 33	14	2011-Fa	VH (131 P ppm)	M- (66 K ppm)	A&L Mill	6.5		
2096	DWWCB 35	24	2011-Fa	VH (131 P ppm)	M- (66 K ppm)	A&L Mill	6.5		
2136	DWWCB 36	51	2012-Wi	H- (67 P ppm)	H (148 K ppm)	A&L Mill	6.2		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
2068	2068/6	DWWCB 38	1 12	Mattaponi	IIIa I	II II	III I	II	
	2068/60	DWWCB 39	9	Cecil	IVa I	II II	III I	II	
	2068/62,63	DWWCB 40	7	Mattaponi	IIIb I	II II	III I	II	
	2068/65,66	DWWCB 41	1 11	Appling	IIIb I	II	III	III	
	2068/67,69	DWWCB 42	1 14	Appling	IIIb I	II II	III I	III	
	2068/59	DWWCB 43	2	Mattaponi	IIIa I	II II	III I	II	
	2068/0	DWWCB 44	1 11	Georgeville	IVa I	II II	III H	II	
2096	2096/80, 83	DWWCB 34	1 12	Mattaponi	IIIa I	II II	III I	II	
	2096/79	DWWCB 33	1 14	Mattaponi	IIIa I	II II	III I	II	
	2096/35,36,3 8	DWWCB 35	2 24	Mattaponi	IIIa I	II II	III I	II	
2136	2136/45	DWWCB 36	5 51	Mattaponi	IIIa I	II II	III I	II	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: **New Plan** **Spring, 2013 - Summer, 2014**

Farm Name: **Warren C. Bain**
Location: Dinwiddie
Specialist: Recyc Systems, Inc.
N-based Acres: 100.9
P-based Acres: 65.8

Tract Name: **2068**
FSA Number: 2068
Location: Dinwiddie

Field Name: **DWWCB 38**
Total Acres: 11.90 Usable Acres: 11.90
FSA Number: 61
Tract: 2068
Location: Dinwiddie
Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Su-2012	6.9	H(81 P ppm)	M(87 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
9	2B	Appling
4	4B	Cecil
87	12B	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	136.8 bushel(s)	Corn (grain) - No Till

Field Name: DWWCB 39

Total Acres:	9.30	Usable Acres:	9.30
FSA Number:	60		
Tract:	2068		
Location:		Dinwiddie	
Slope Class:	B	Hydrologic Group:	B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Su-2012	6.6	H(92 P ppm)	M(80 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
40 2	2B Appli	Appling
53 4	4B Ceci	Cecil
2 5	5B Empo	Emporia
5 12	12B Matt	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	35.4 * bushel(s)	Soybeans (FS) - No Till

Field Name: **DWWCB 40**
Total Acres: 6.90 Usable Acres: 6.90
FSA Number: 62,63
Tract: 2068
Location: Dinwiddie
Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Su-2012	6.3	H(100 P ppm)	M+(108 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
27	2B	Appling
73	12B	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	134.6 bushel(s)	Corn (grain) - No Till

Field Name: **DWWCB 41**
Total Acres: 10.50 Usable Acres: 10.50
FSA Number: 65,66
Tract: 2068
Location: Dinwiddie
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Su-2012	5.7	H+(120 P ppm)	M-(62 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
55	2B	Appling
24	5B	Emporia
22	12B	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	129.1 bushel(s)	Corn (grain) - No Till

Field Name: DWWCB 42

Total Acres:	14.20	Usable Acres:	14.20
FSA Number:	67,69		
Tract:	2068		
Location:		Dinwiddie	
Slope Class:	B	Hydrologic Group:	B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab

Su-2012	6.2	VH(138 P ppm)	M(102 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
56	2B	Appling
45	12B	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	128.9 bushel(s)	Corn (grain) - No Till

Field Name: DWWCB 43

Total Acres:	2.00	Usable Acres:	2.00
FSA Number:	59		
Tract:	2068		
Location:		Dinwiddie	
Slope Class:	B	Hydrologic Group:	C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Su-2012	5.9	VH(141 P ppm)	M+(113 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
19 2	2B Appli	Appling
40 5	5B Empo	Emporia
41 12	12B Matta	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	135.5 bushel(s)	Corn (grain) - No Till

Field Name: DWWCB 44

Total Acres:	11.00	Usable Acres:	11.00
FSA Number:	0		
Tract:	2068		
Location:		Dinwiddie	
Slope Class:	B	Hydrologic Group:	B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
6 2	2B Appli	Appling
83 8	8B Georgevil	Georgeville
5 8	8C Georgevil	Georgeville
6 10	10B Herndo	Herndon

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	120.0 * bushel(s)	Corn (grain) - No Till

Tract Name: 2096

FSA Number: 2096
Location: Dinwiddie

Field Name: DWWCB34
Total Acres: 11.80 Usable Acres: 11.80
FSA Number: 80,83
Tract: 2096
Location: Dinwiddie
Slope Class: A Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2011	6.5	VH(131 P ppm)	M-(66 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
7	5A	Emporia
66	12A	Mattaponi
27	12B	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	40.0 bushel(s)	Soybeans (FS) - No Till

Field Name: DWWCB 33
Total Acres: 14.00 Usable Acres: 14.00
FSA Number: 79
Tract: 2096
Location: Dinwiddie

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2011	6.5	VH(131 P ppm)	M-(66 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
21	12A	Mattaponi
79	12B	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	140.0 bushel(s)	Corn (grain) - No Till

Field Name: DWWCB 35
Total Acres: 23.80 Usable Acres: 23.80
FSA Number: 35,36,82
Tract: 2096
Location: Dinwiddie
Slope Class: A Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2011	6.5	VH(131 P ppm)	M-(66 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
12 5	5A Emporia	Emporia
4 5	5B Emporia	Emporia
79 12	12A Mattaponi	Mattaponi
6 12	12B Mattaponi	Mattaponi

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	140.0 bushel(s)	Corn (grain) - No Till

Tract Name: 2136
FSA Number: 2136
Location: Dinwiddie

Field Name: DWWCB 36
Total Acres: 51.30 Usable Acres: 51.30
FSA Number: 45
Tract: 2136
Location: Dinwiddie
Slope Class: A Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab

Wi-2012	6.2	H-(67 P ppm)	H(148 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
58 12	12A Mattaponi	Mattaponi
40 12	12B Mattaponi	Mattaponi
2 16	16A Roanoke	Roanoke

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	138.9 bushel(s)	Corn (grain) - No Till

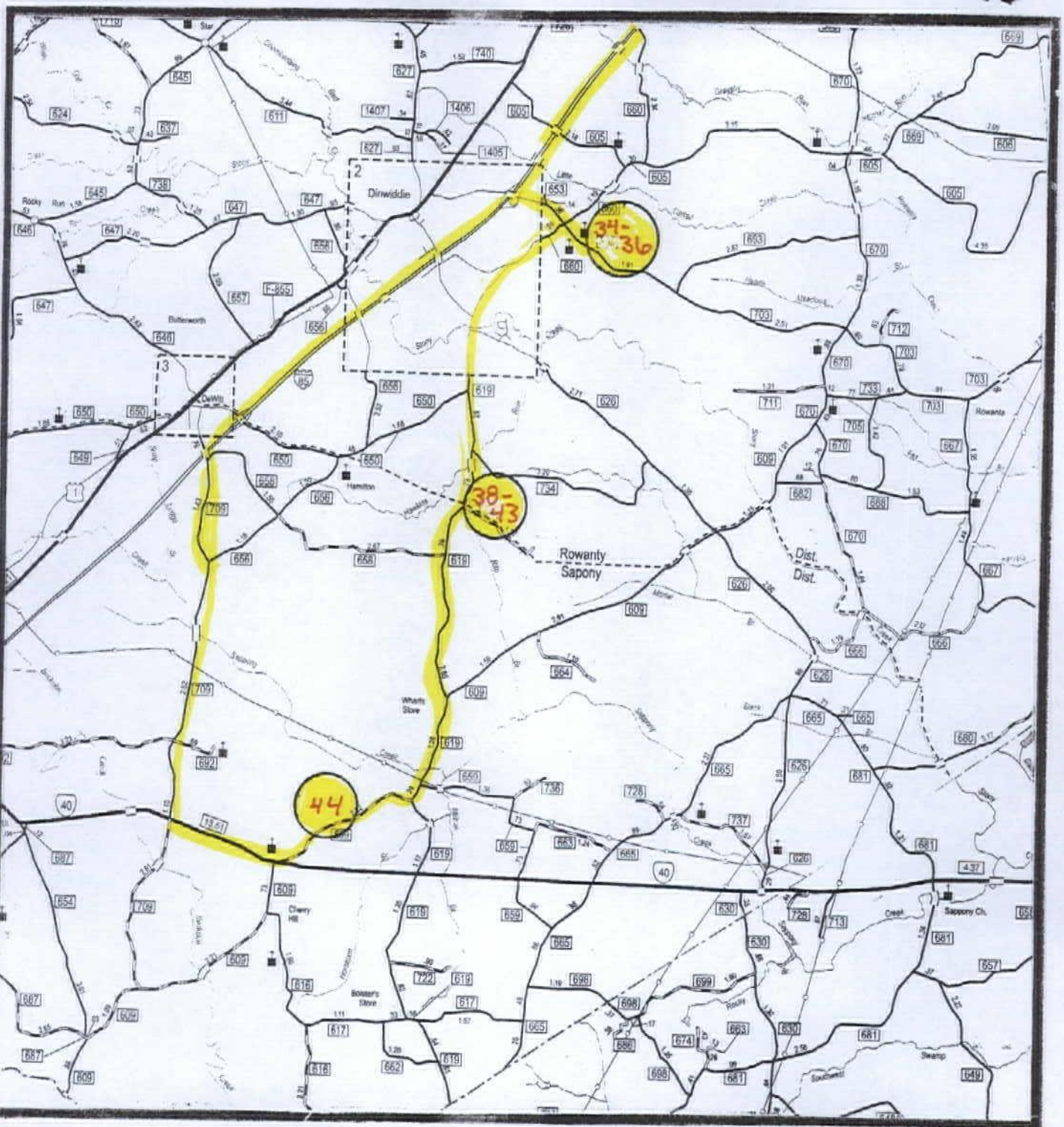
Tract Name: **5326**
FSA Number: 5326
Location: Dinwiddie

Tract Name: **Default Tract**
FSA Number: 0
Location: Dinwiddie

MAPS

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 2 miles

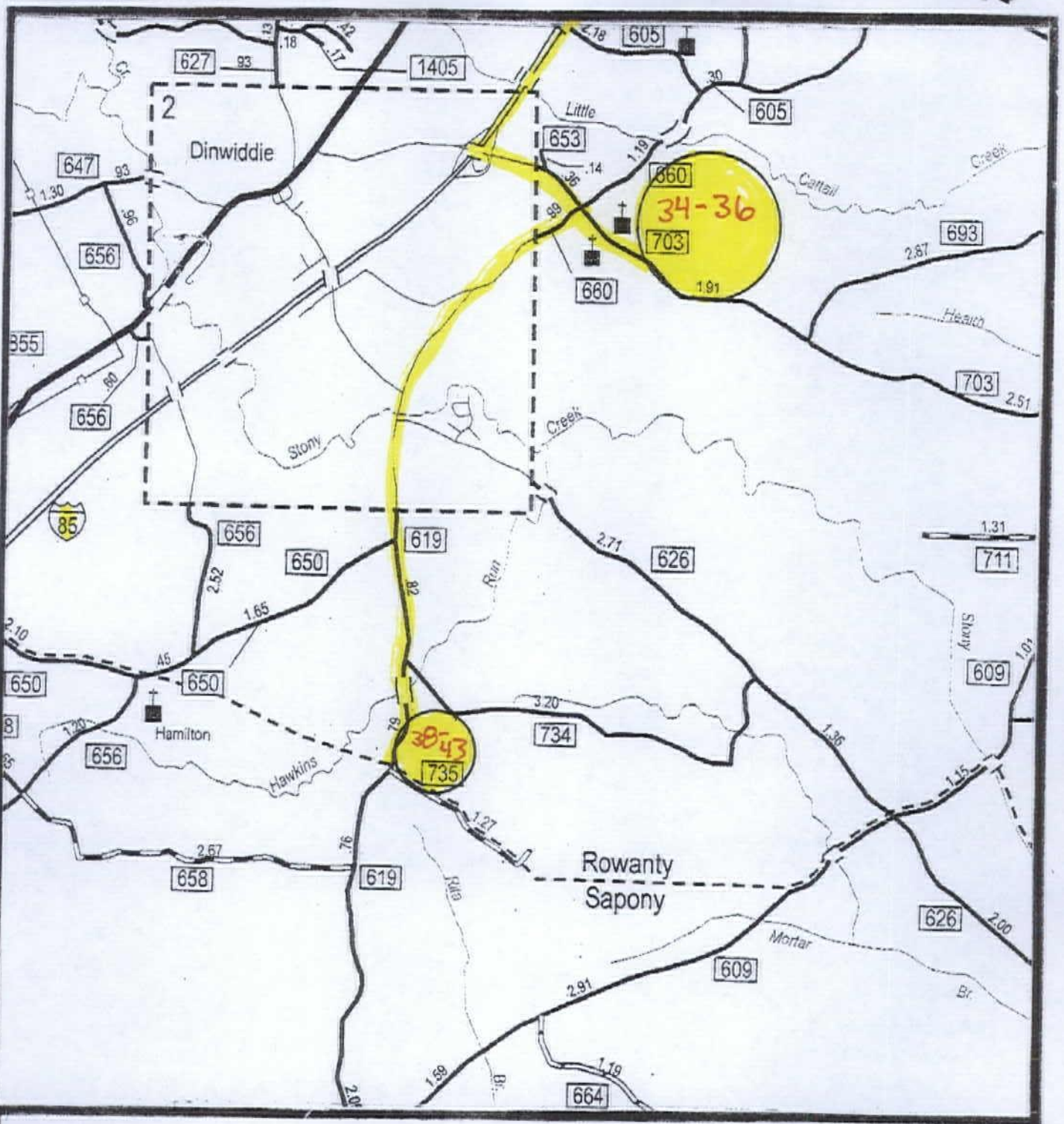
DWWCB 33-36,38-44

VICINITY MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

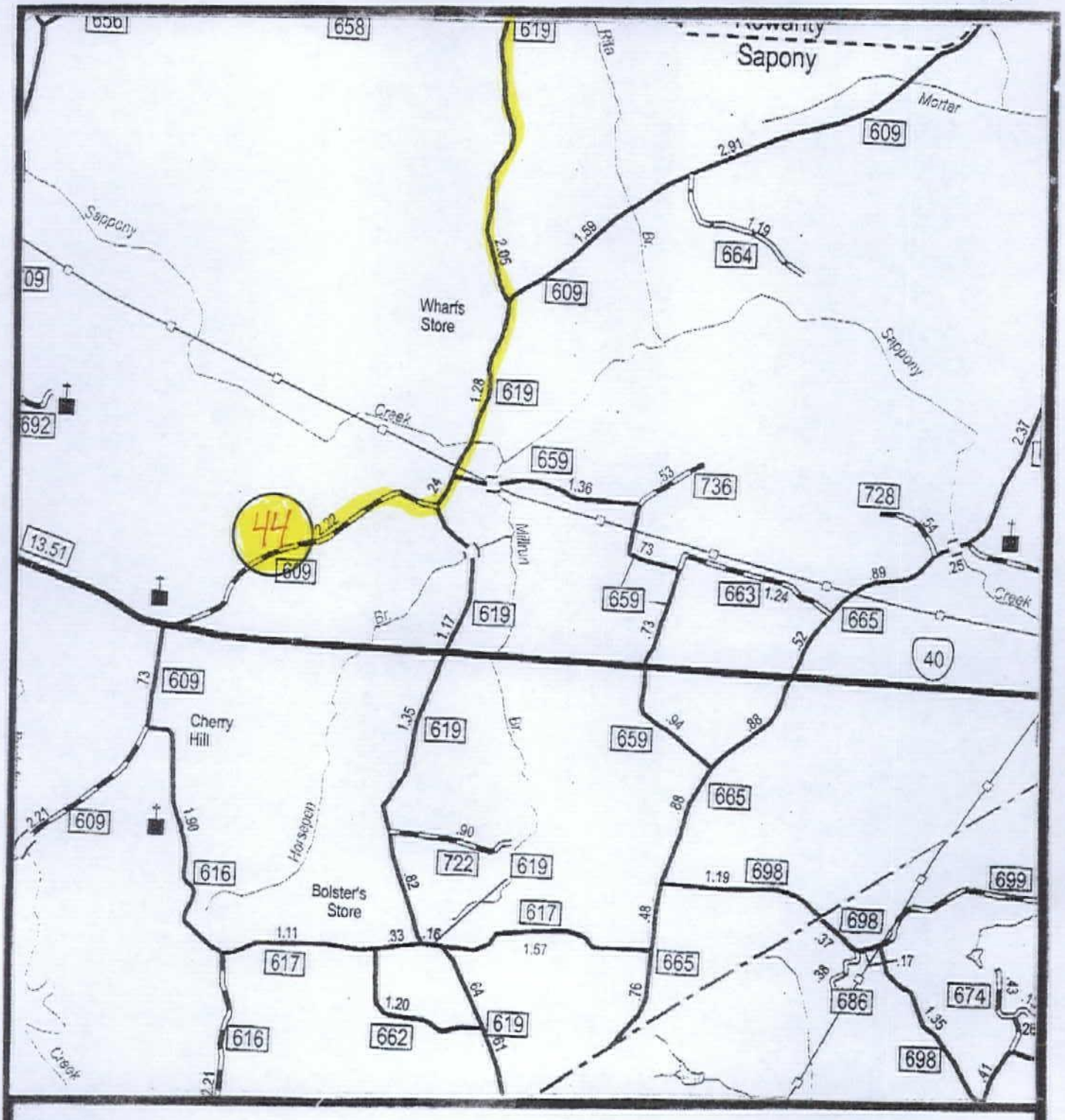
DWWCB 33-36,38-43

VICINITY MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

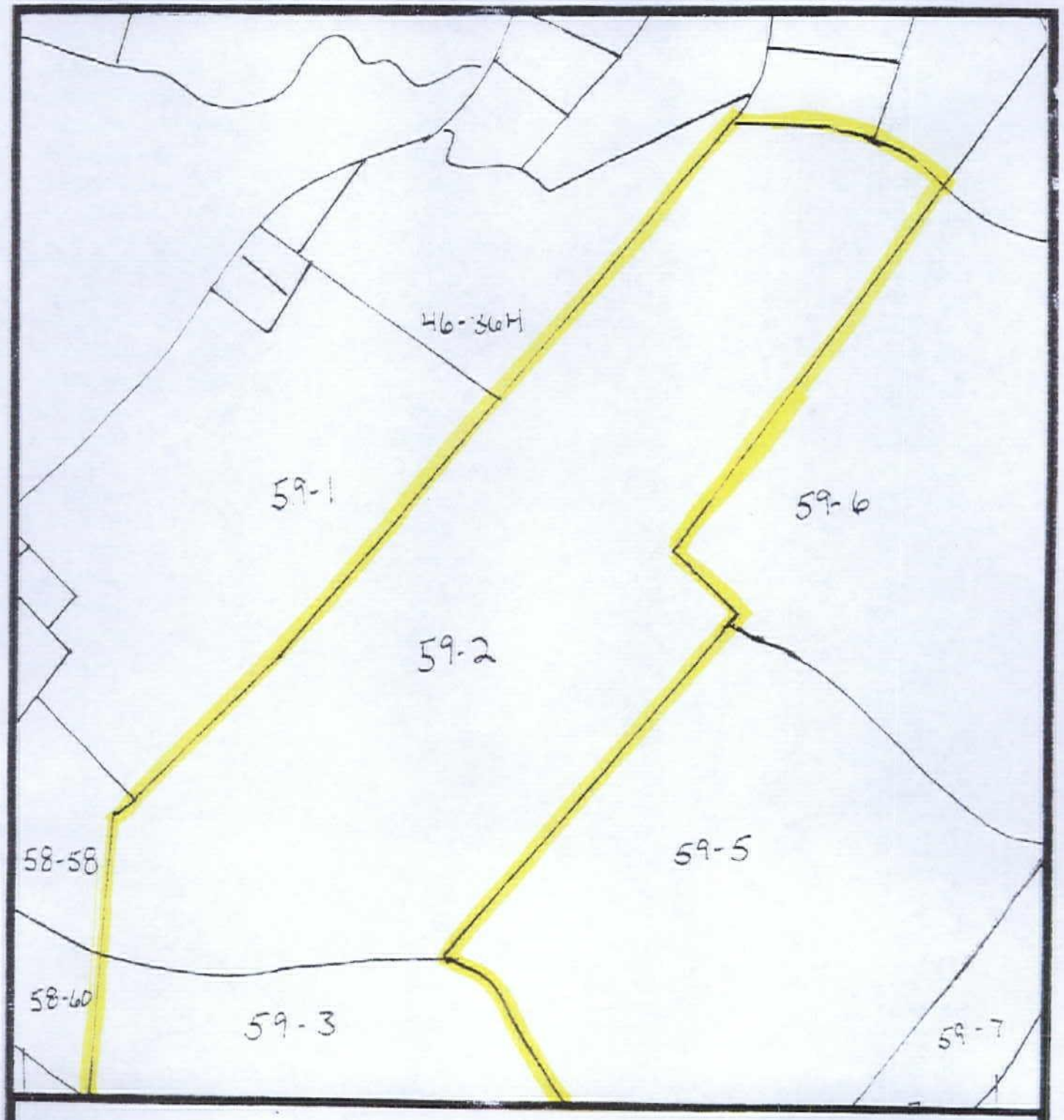
DWWCB 44

VICINITY MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



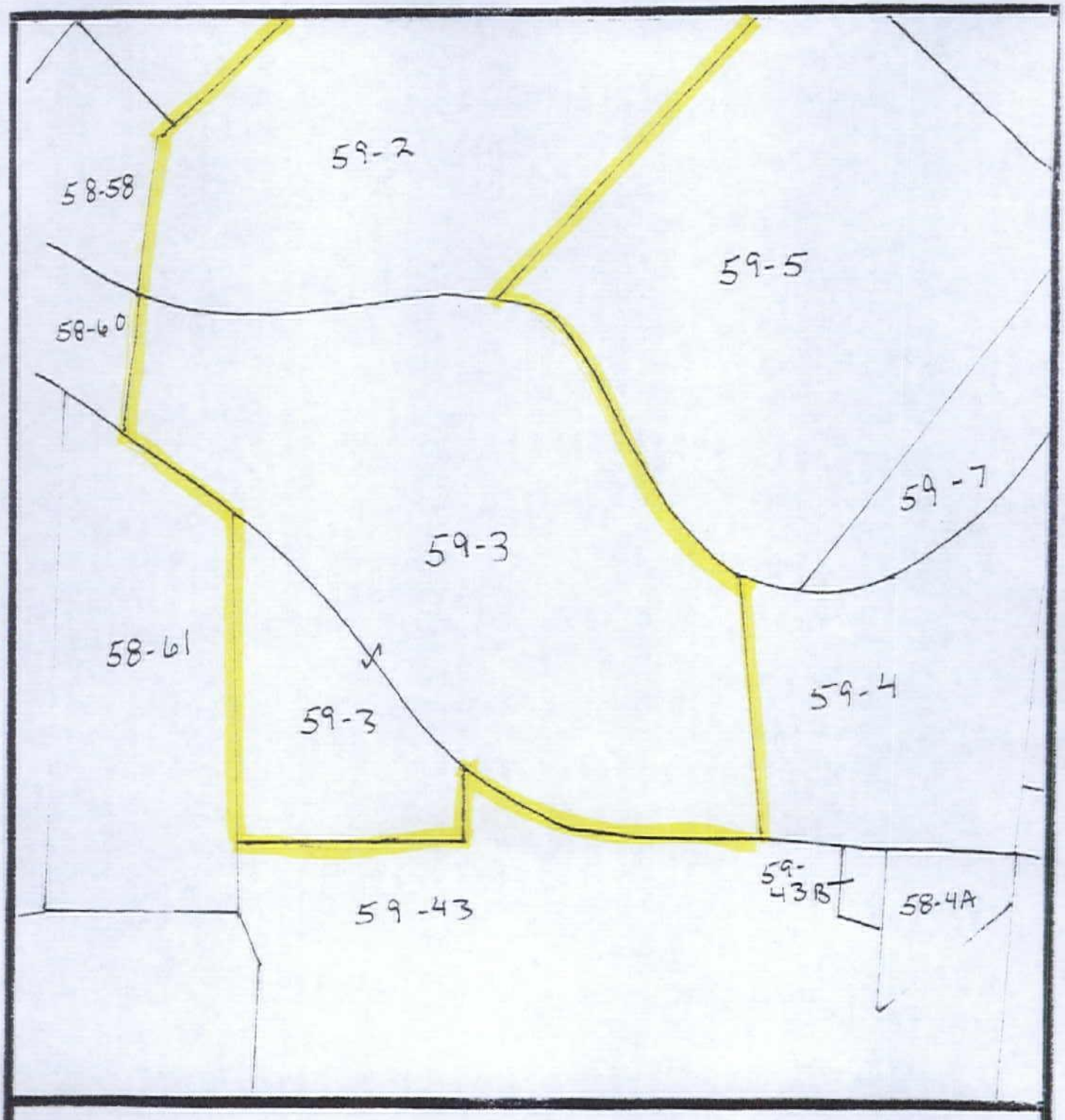
Scale: 1 inch = 660 feet DWWCB 33-35

TAX MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



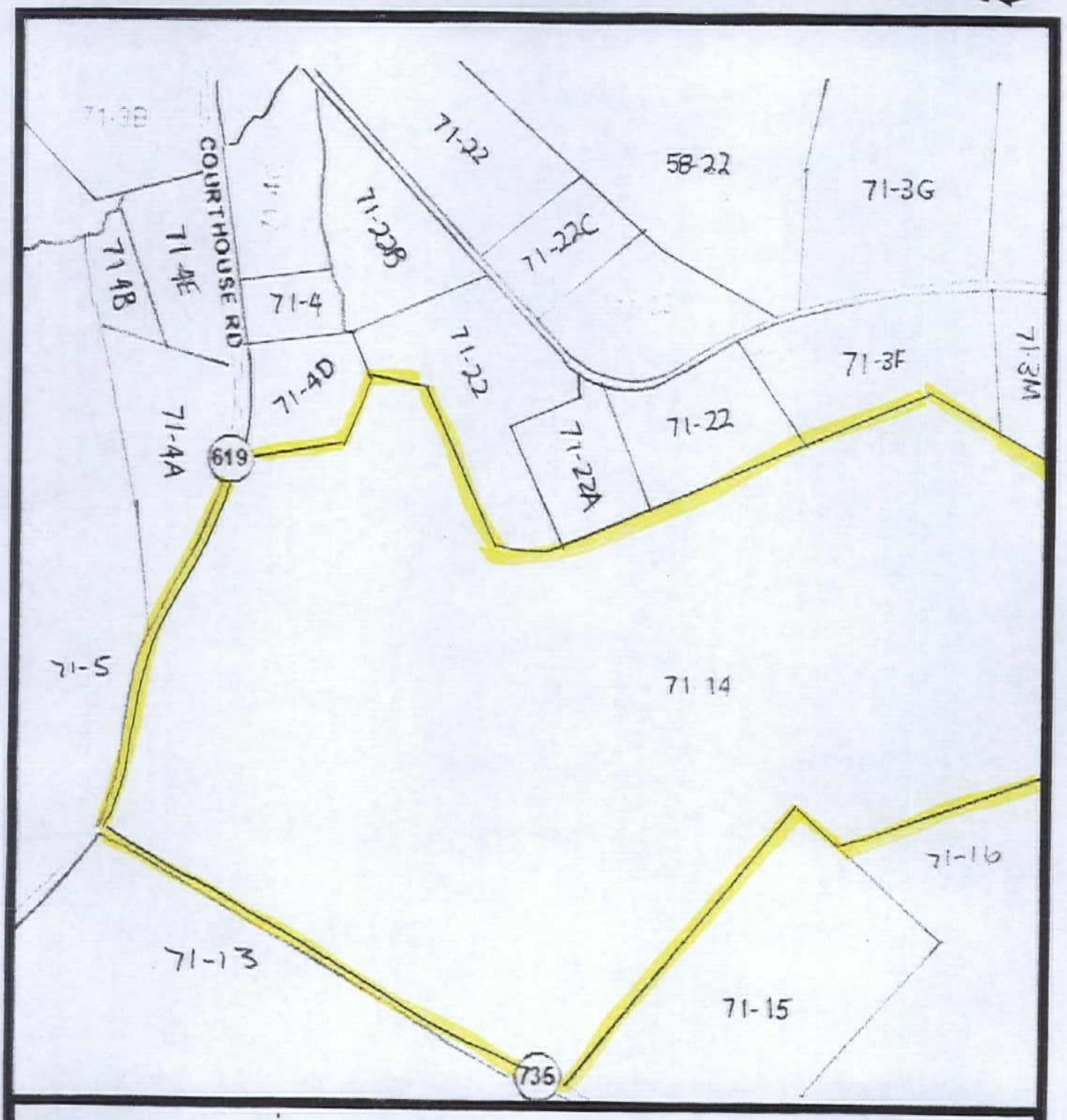
Scale: 1 inch = 660 feet DWWCB 36

TAX MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

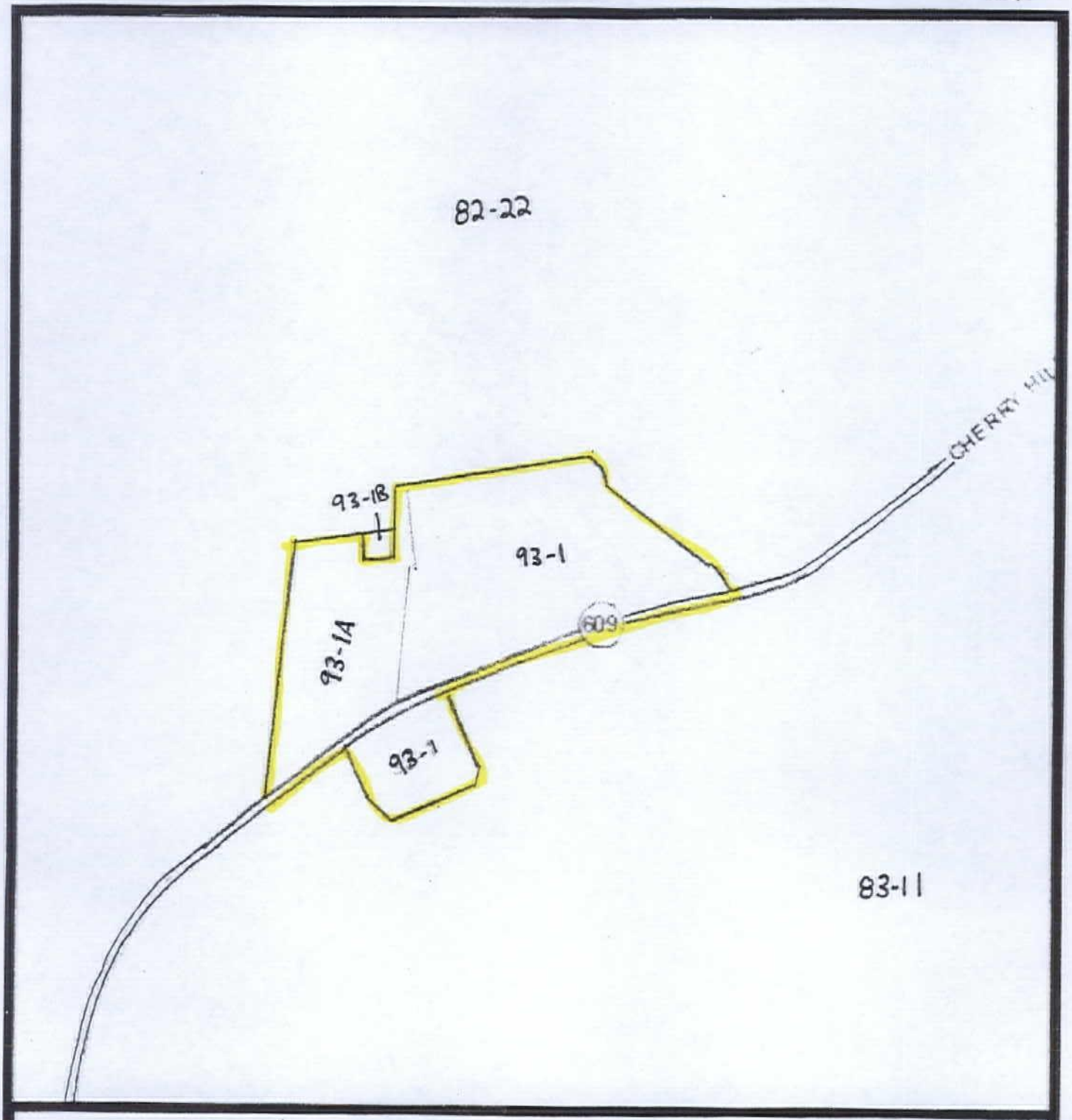
DWWCB 38-43

TAX MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



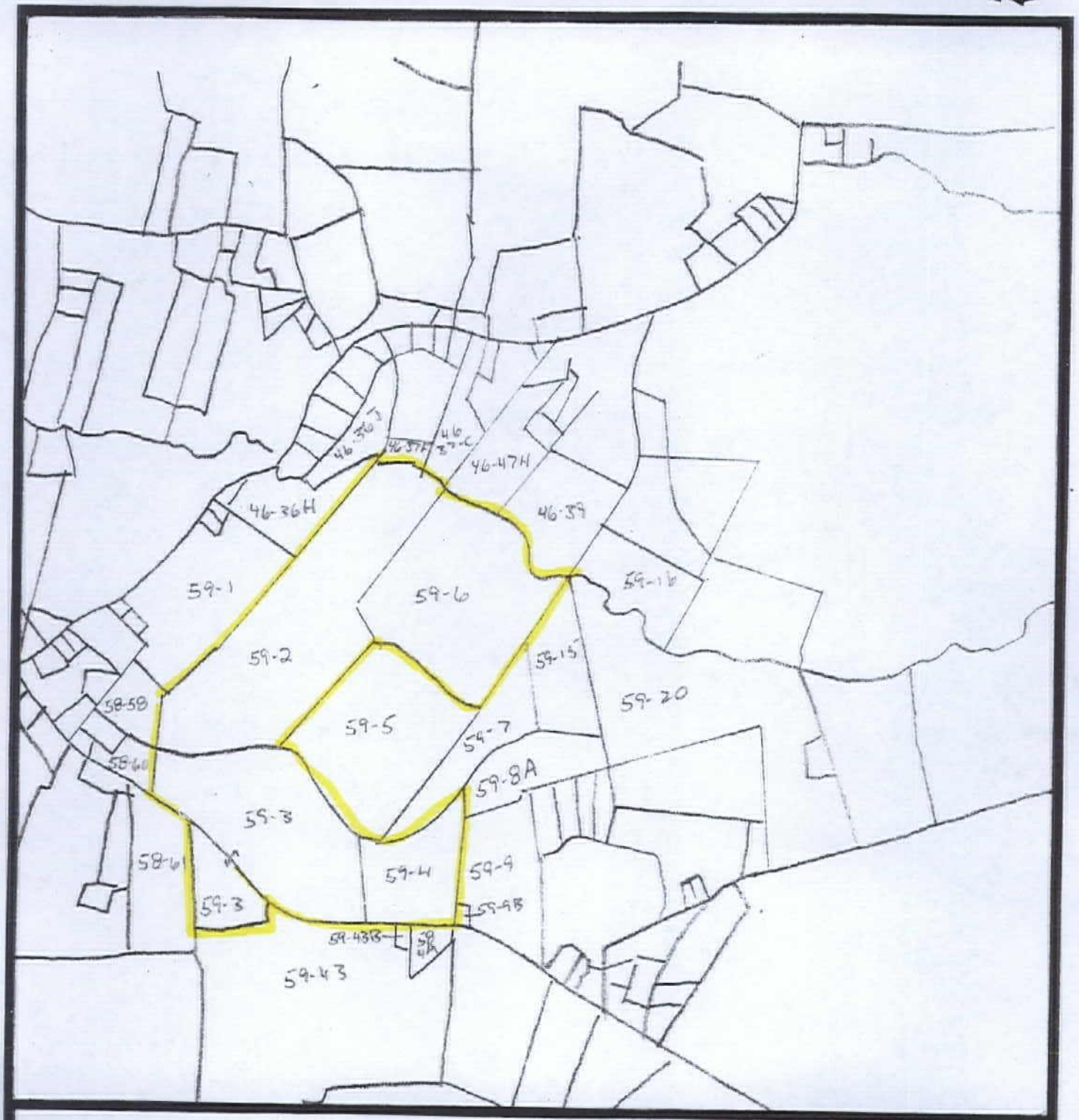
Scale: 1 inch = 660 feet DWWCB 44

TAX MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



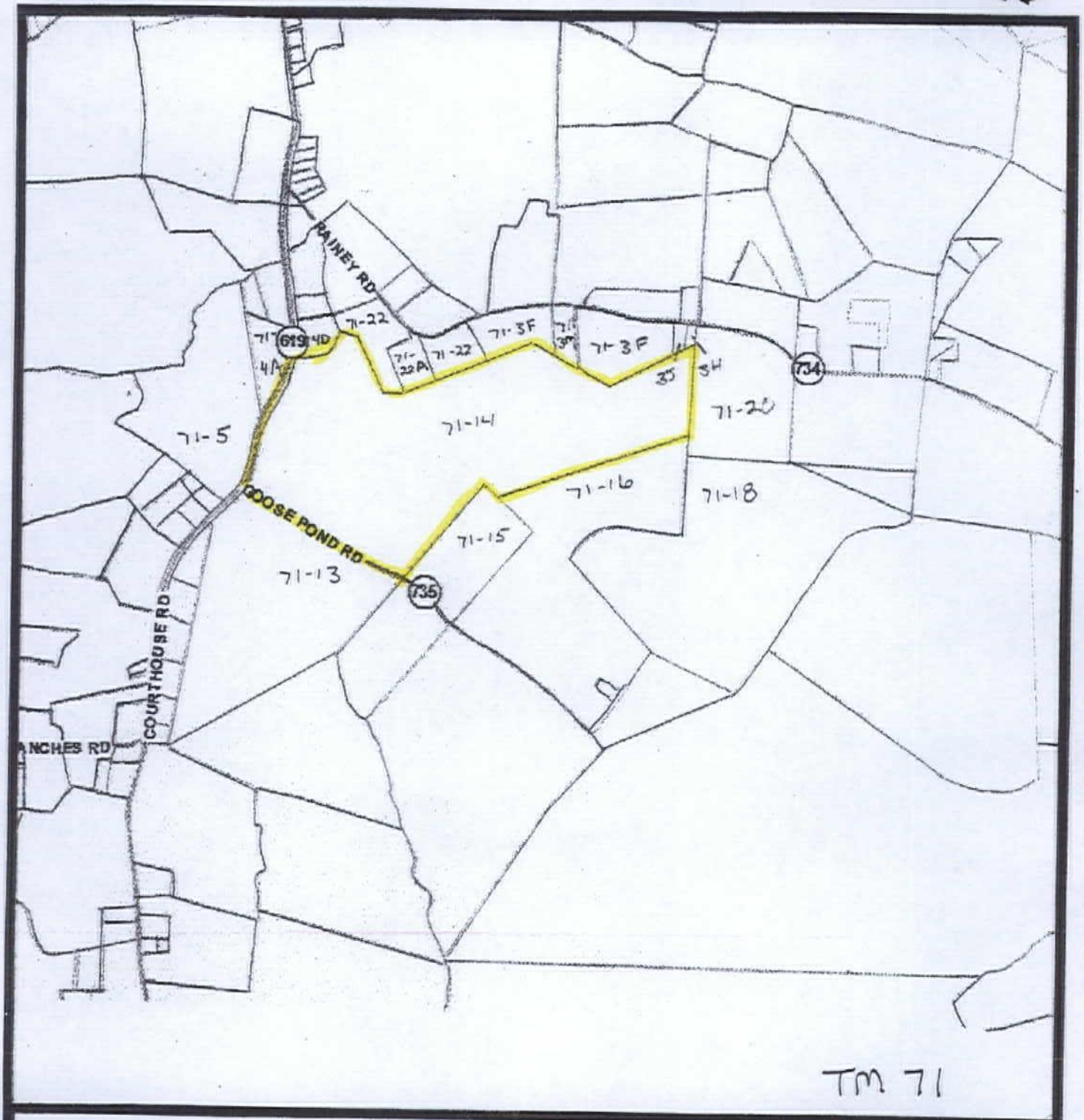
Scale: 1 inch = 2,000 feet DWWCB 33-37

TAX MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 2,000 feet

DWWCB 38-43

TAX MAP

N

ADJOINING LANDOWNERS

Warren C. Bain

DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
46	36H	Carl Daniel & Evelyn Smith
	36J	Thomas B. & Patricia C. Williams
	37C	Daniel T. & Christina T. Nunnally
	37F	Sharon D. Carr, Harvey Clyde Kellett, Carol A. Kellett
	39	Richard E. Lewis, Jr. etal
	47H	Eastern Woodlans Corp.
58	58	Hezekiah Jones
	60	W.D. Allen, Jr.
	61	Milton I. Hargrave, Jr. & Claude S. Whitehead, Jr.
59	1	Reuben Howard, Jr.
	4	Bain Properties, LLC
	4A	Thea, Jr. & Margaret T. Harvell
	5	Bain Properties, LLC
	6	Bain Properties, LLC
	7	Nancy Winn Williams
	8A	Warren C. & Nancy B. Bain
	9	Glenn W., Sr. & Shirley E. Alvis
	9B	Beverley Hill McDonald & Milton Tyrone Hill
	43	Hutcheson Properties LLCC
	43B	Thea, Jr. & Margaret T. Harvell
71	3F	Lonnie E. & Louise Y. Berger
	3H	Lonnie E. & Louise Y. Berger
	3J	Lonnie E. & Louise Y. Berger
	3M	Heather M. Patterson
	4A	Steven R. & Lisa H. Brunch
	4D	James D. & Theresa N. Jarratt

ADJOINING LANDOWNERS

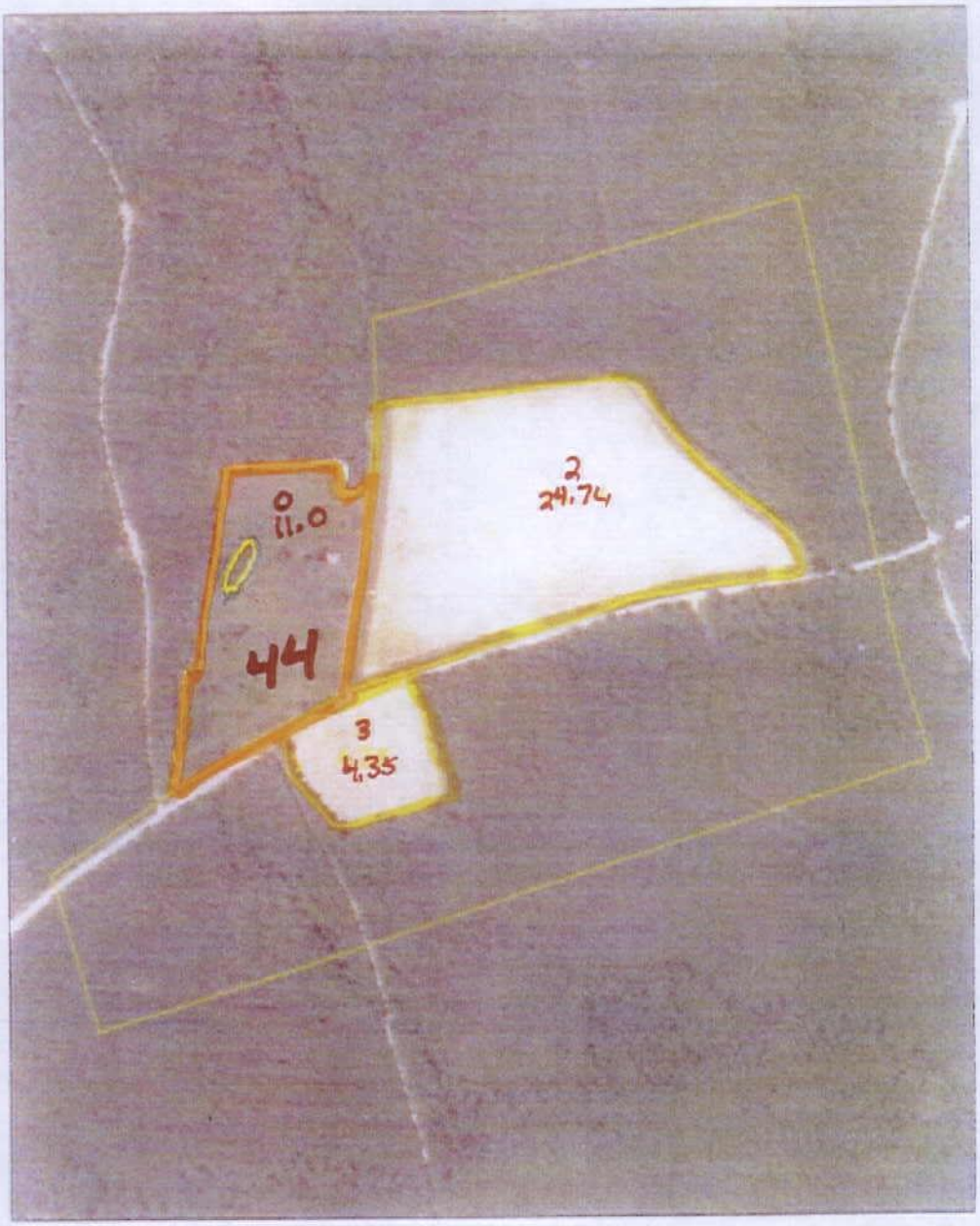
Warren C. Bain

DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
71	5	RichardE., Jr. & Barbara S. Lewis
	13	American Timberland, LLCC
	15	C.B. Howerton, Jr.
	16	Frances Reese Henshaw
	20	Mary Almetine rainey Chappel & Gris Rainey
	22	Cathy Rose Young
	22A	William L. & Katherine R. Young
82	22	Sapony Church
83	11	Warren C. & Nancy B. Bain

Recyc Systems™ Inc.

(Biosolids Land Application)



T5326

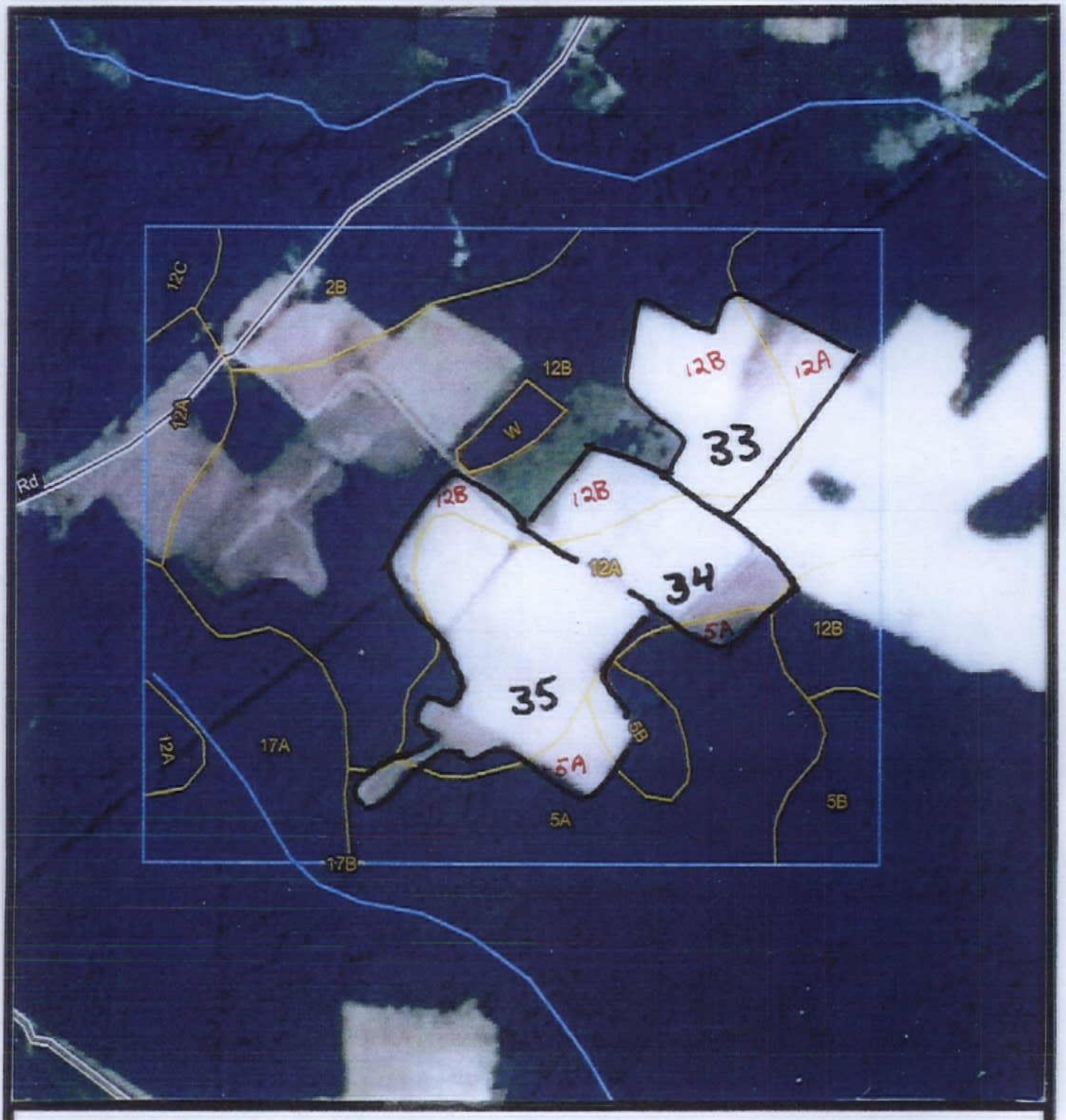
Scale: 1 inch = 660 feet DWWCB 44

AERIAL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

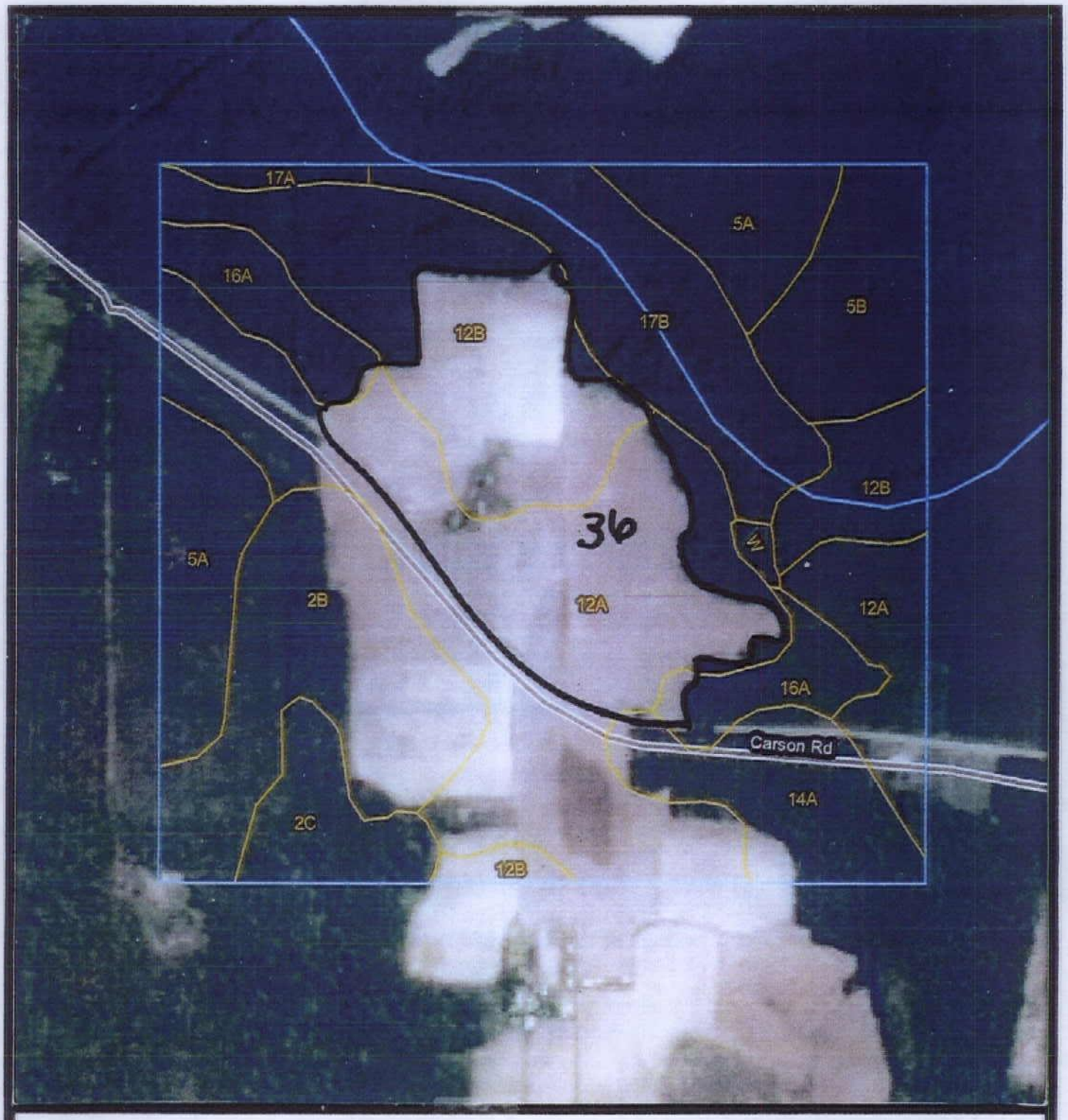
DWWCB 33-35

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

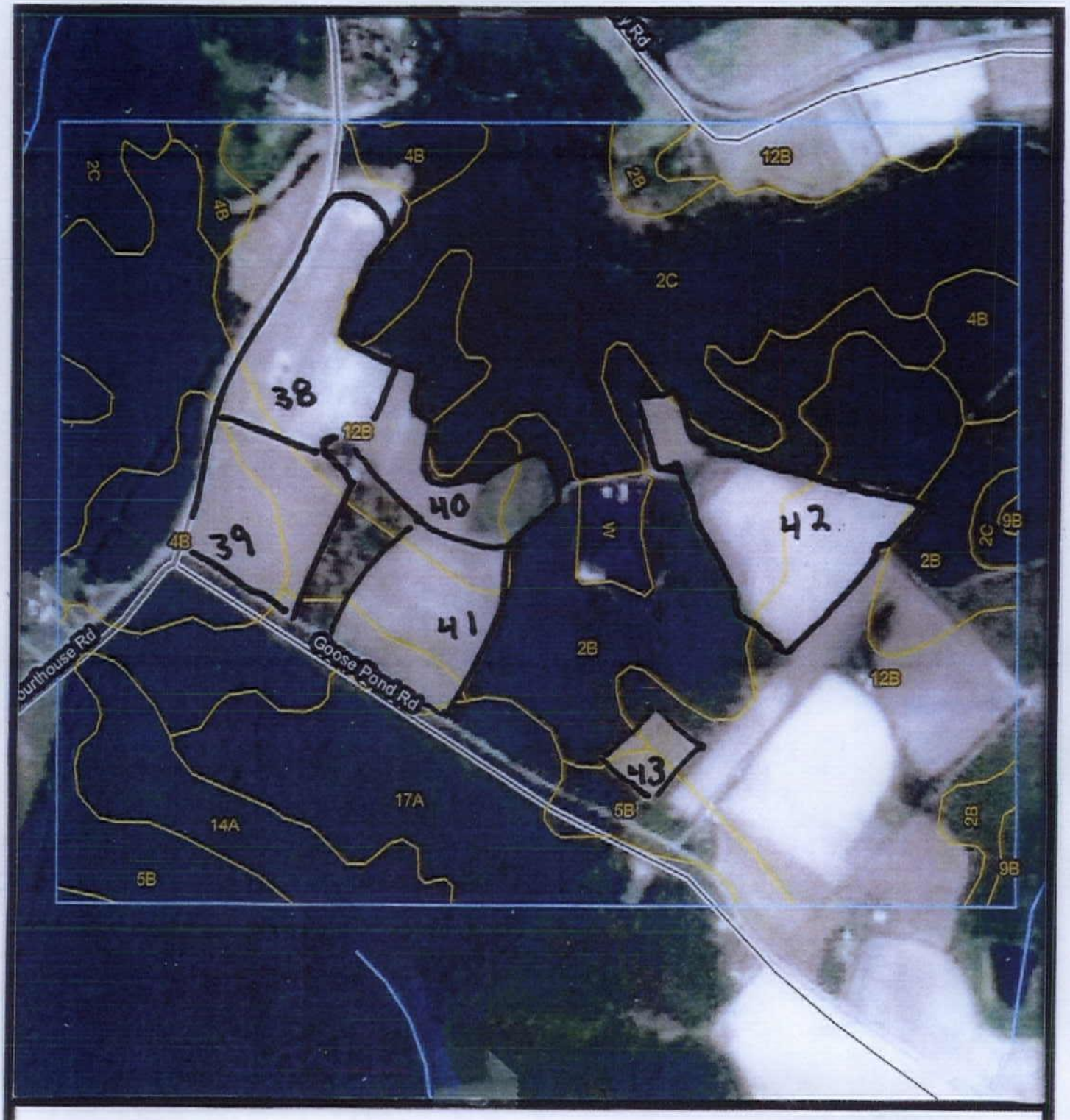
DWWCB 36

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

DWWCB 38-43

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)

Scale: 1 inch = 660 feet

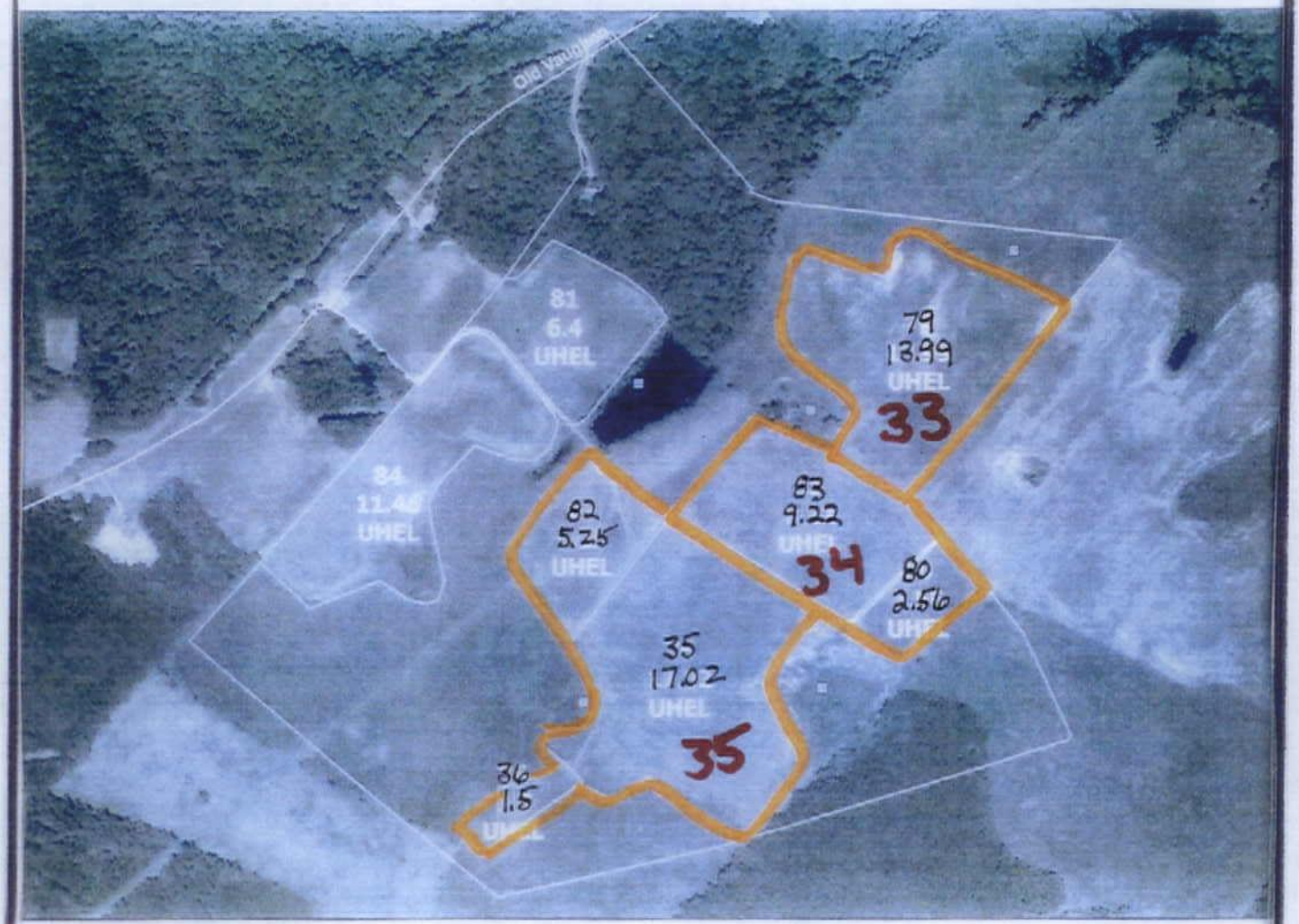
DWWCB 44

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



T2096

Scale: 1 inch = 660 feet

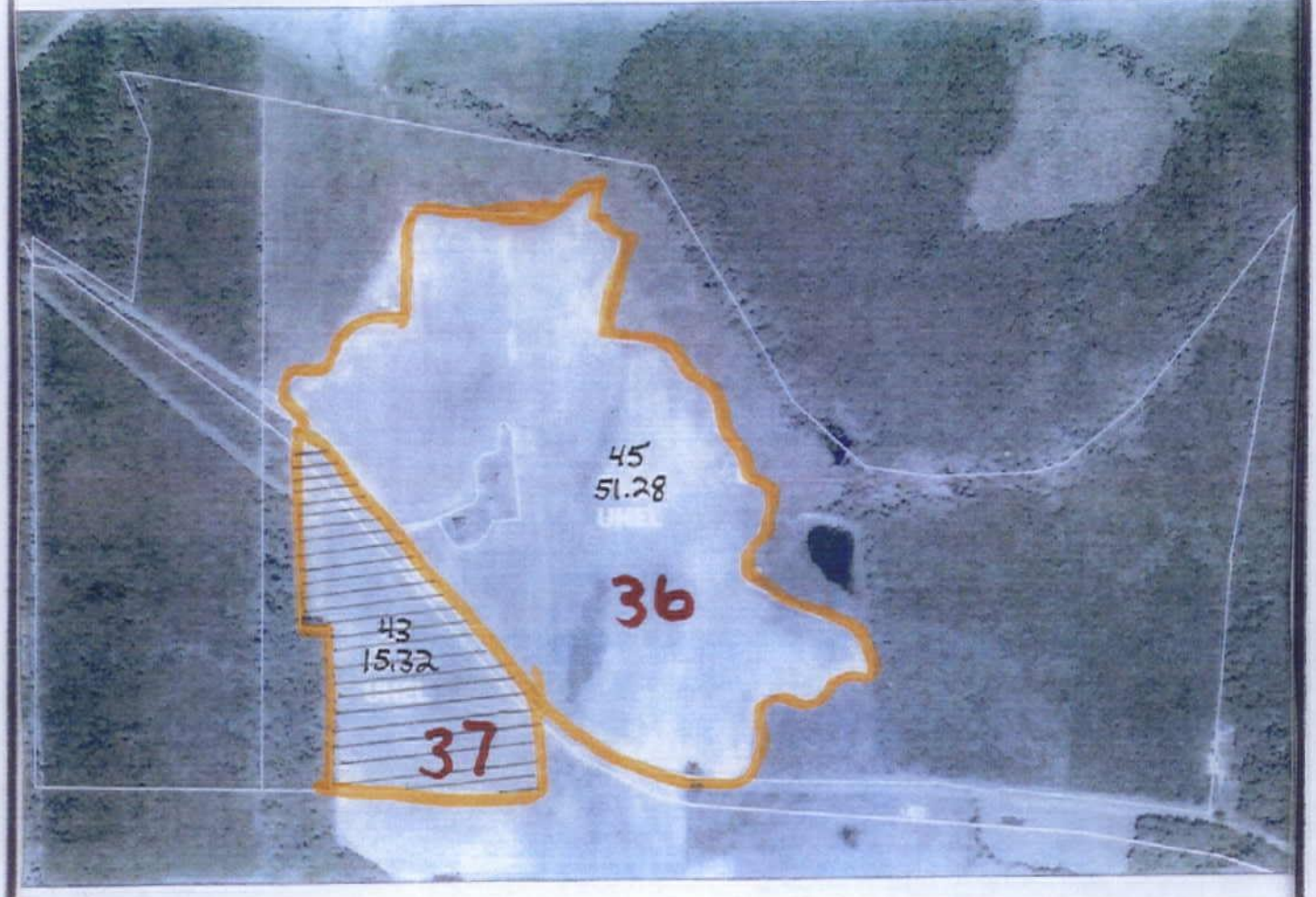
DWWCB 33-35

AERIAL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



T2136

Scale: 1 inch = 660 feet

DWWCB 36-37

AERIAL MAP

N

Recyc Systems™ Inc.

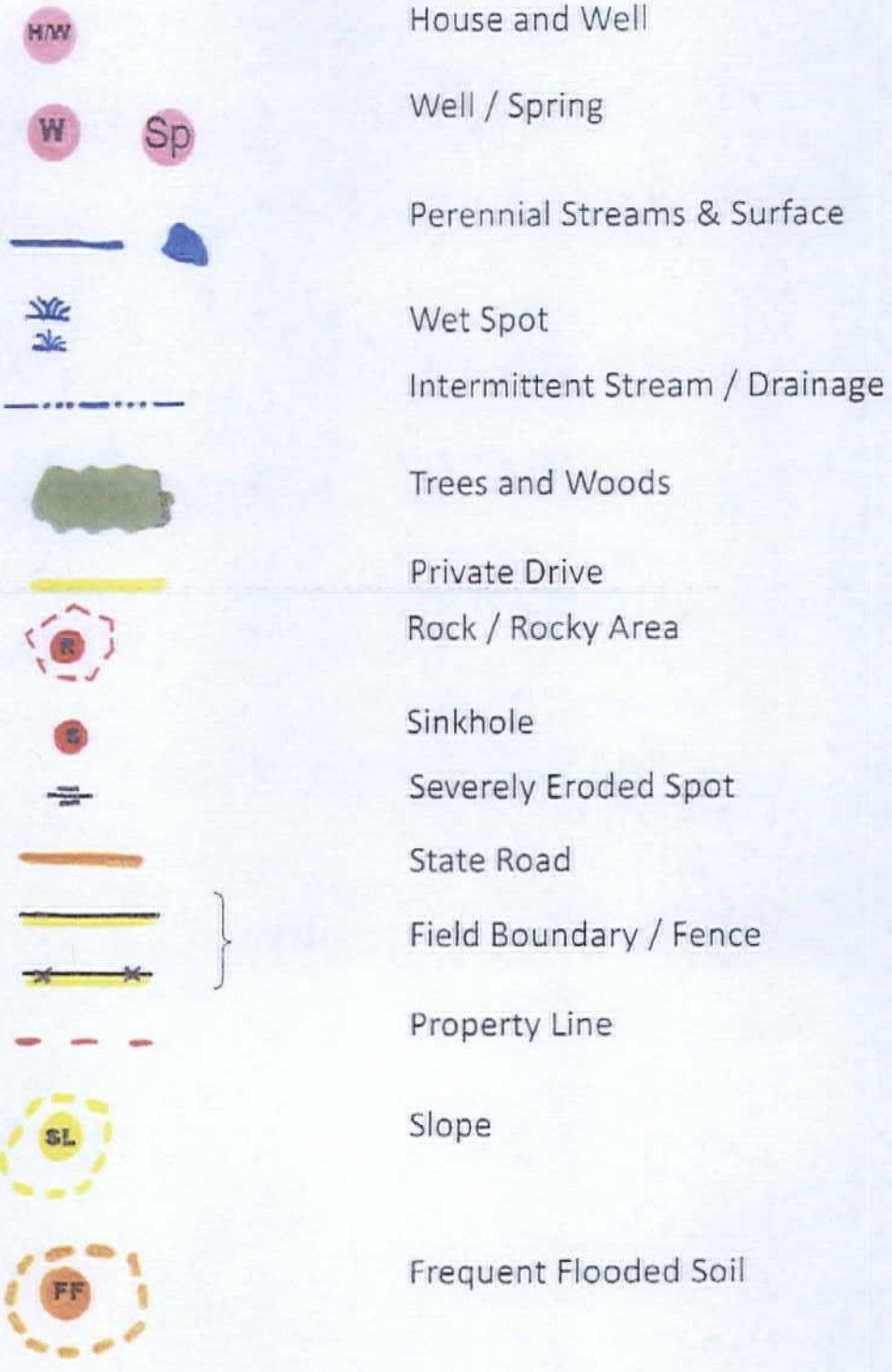
(Biosolids Land Application)

Scale: 1 inch = 660 feet DWWCB 38-43

AERIAL MAP

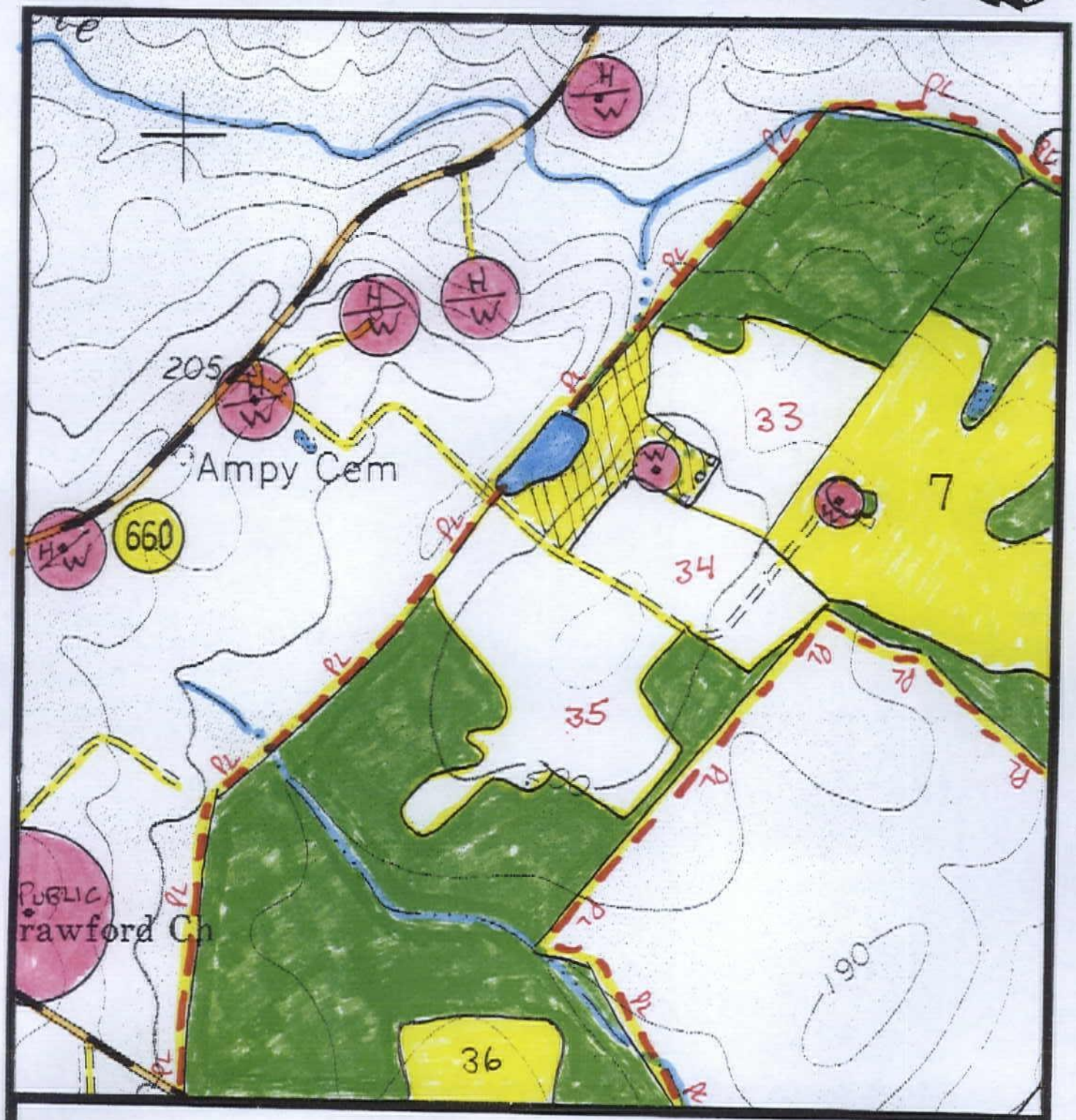
N

Legend for Site Plan



Recyc Systems™ Inc.

(Biosolids Land Application)



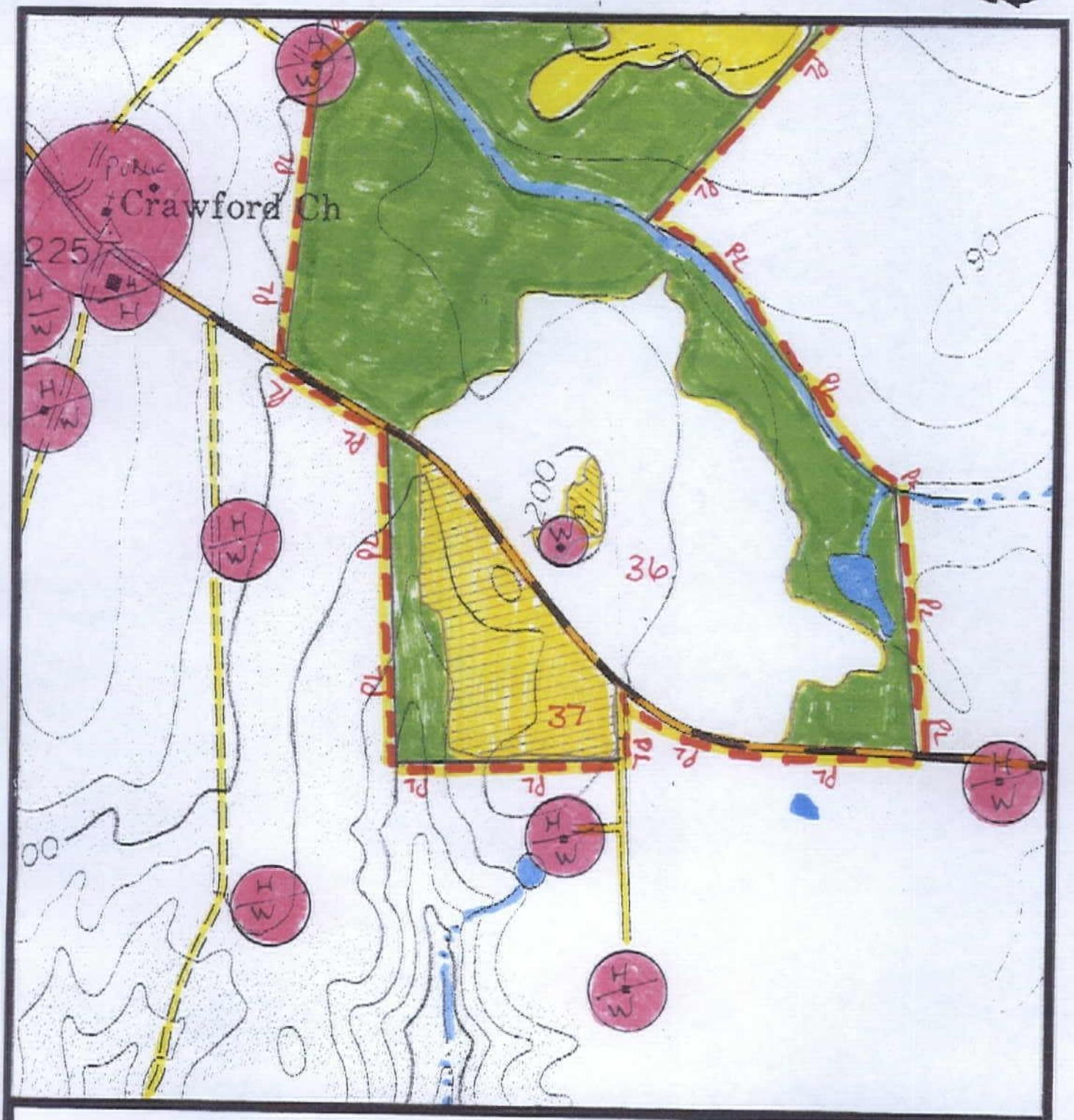
Scale: 1 inch = 660 feet DWWCB 33-35

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)



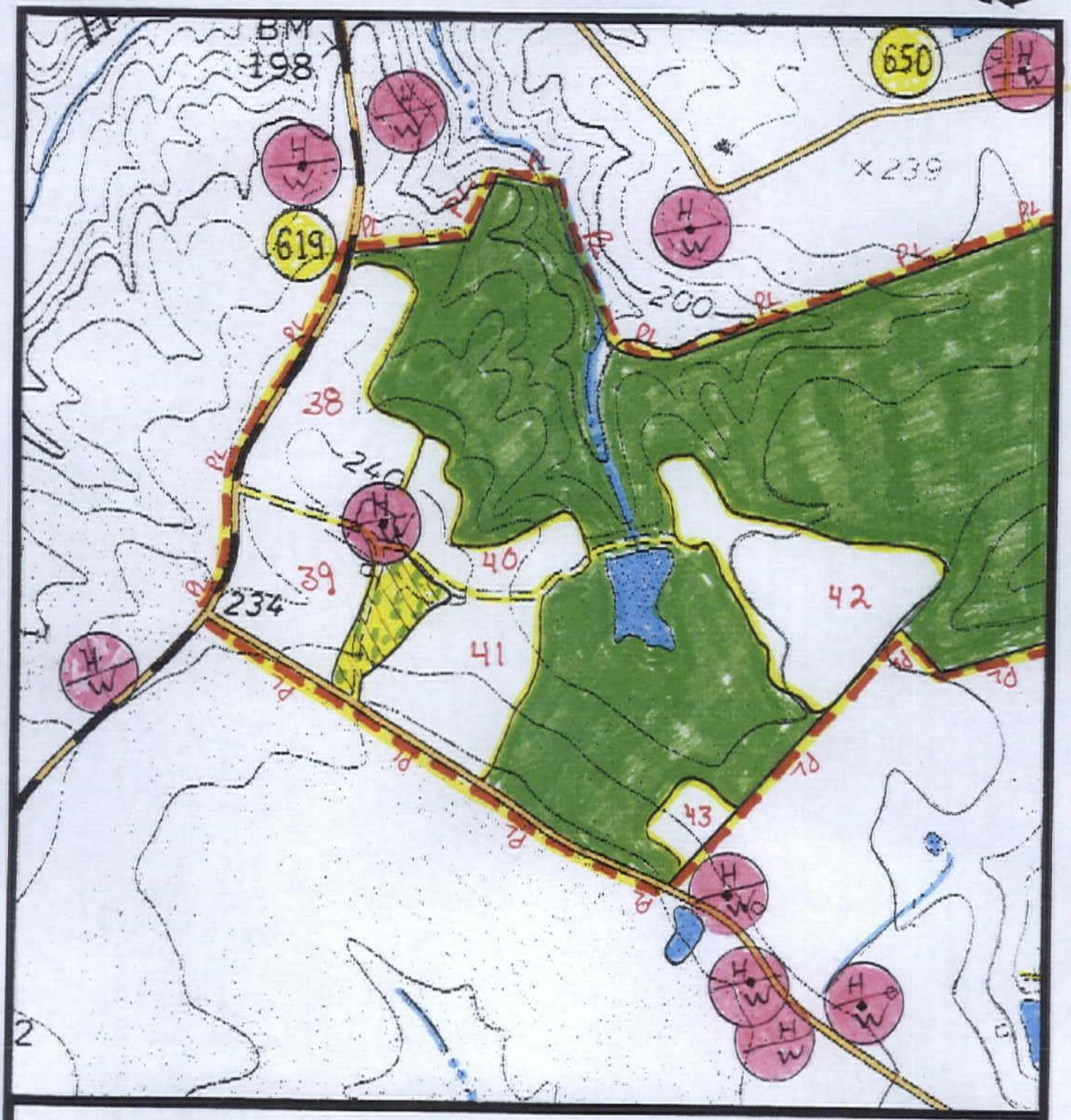
Scale: 1 inch = 660 feet DWWCB 36-37

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)



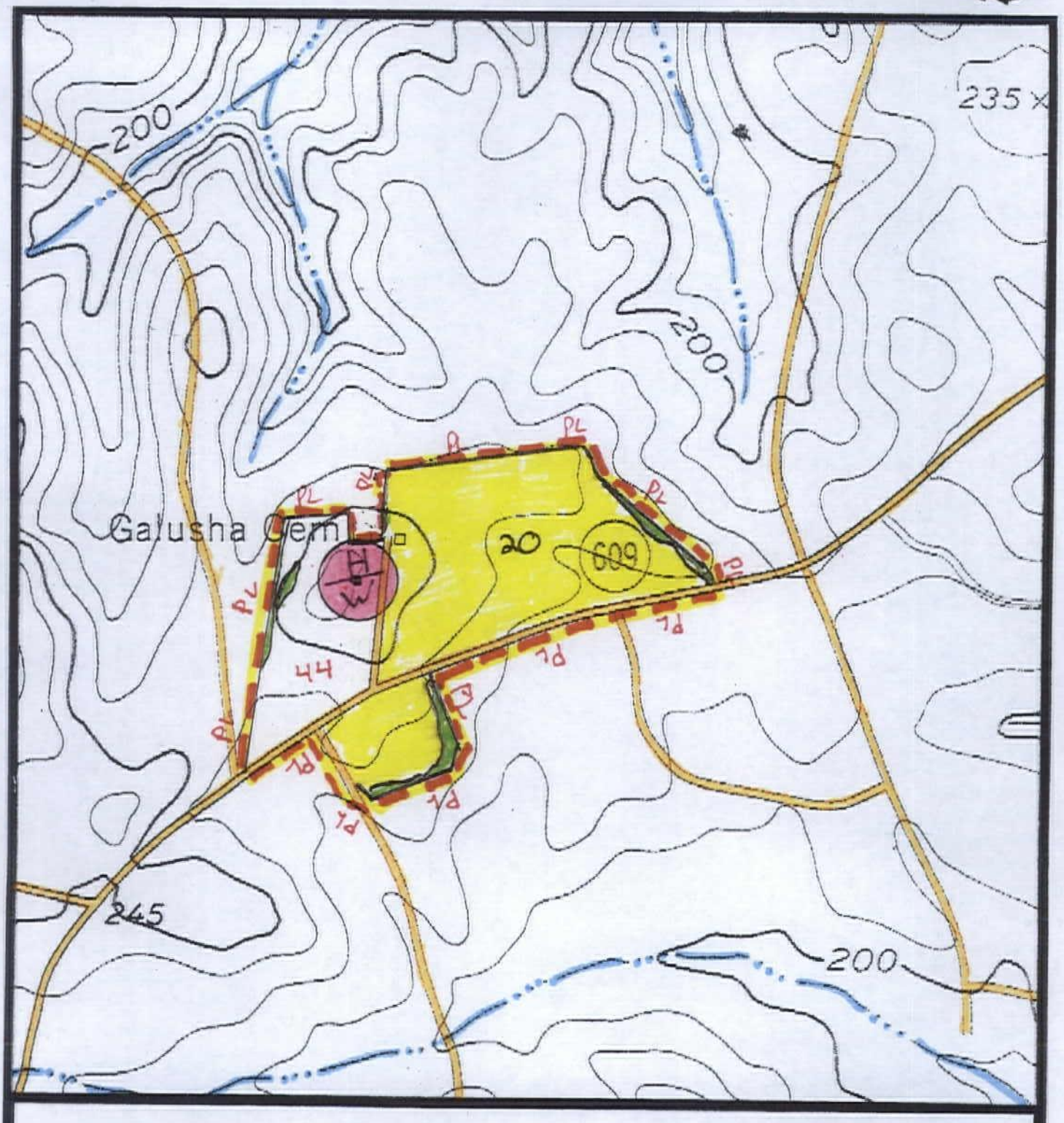
Scale: 1 inch = 660 feet DWWCB 38-43

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)



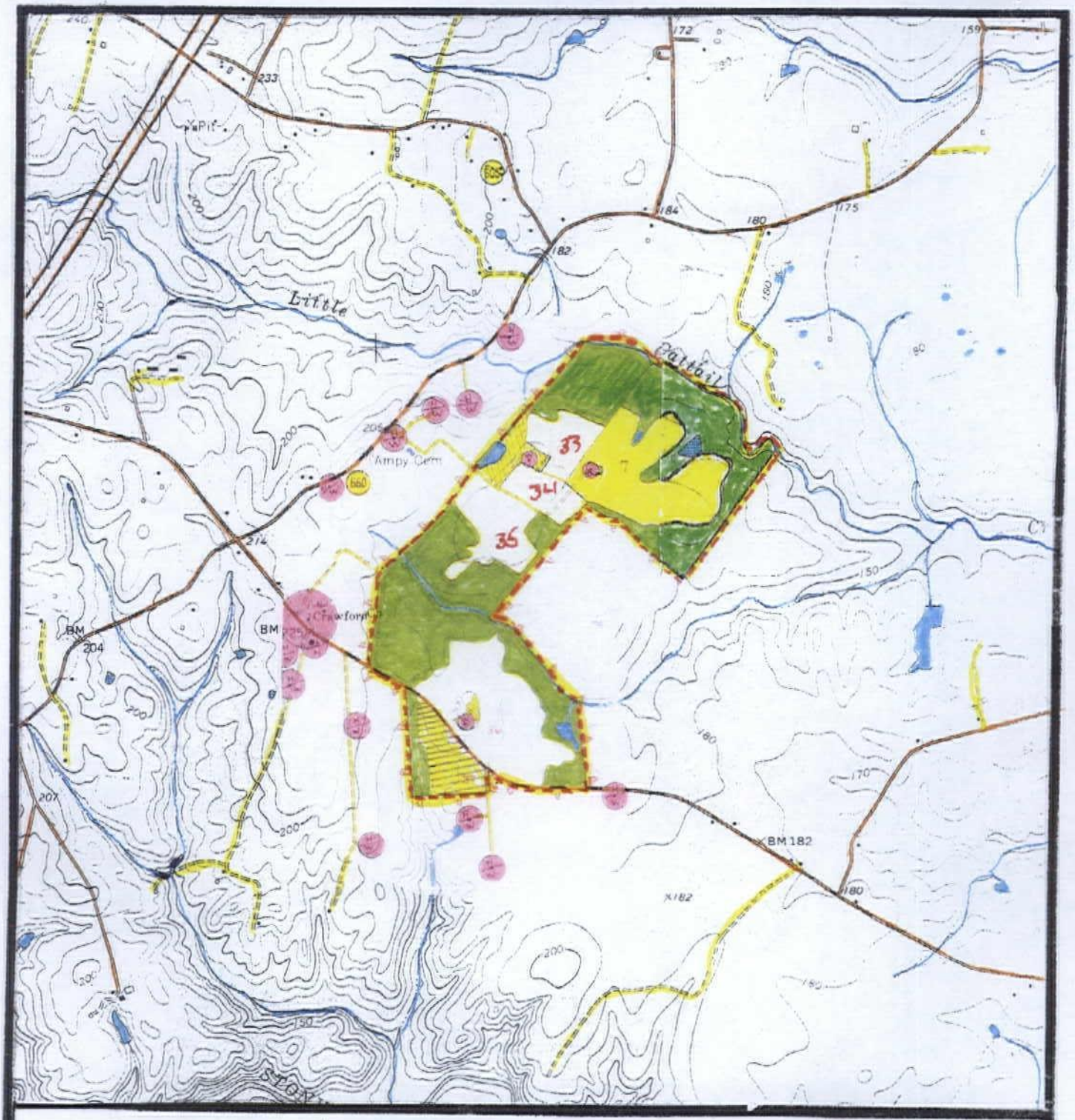
Scale: 1 inch = 660 feet DWWCB 44

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)



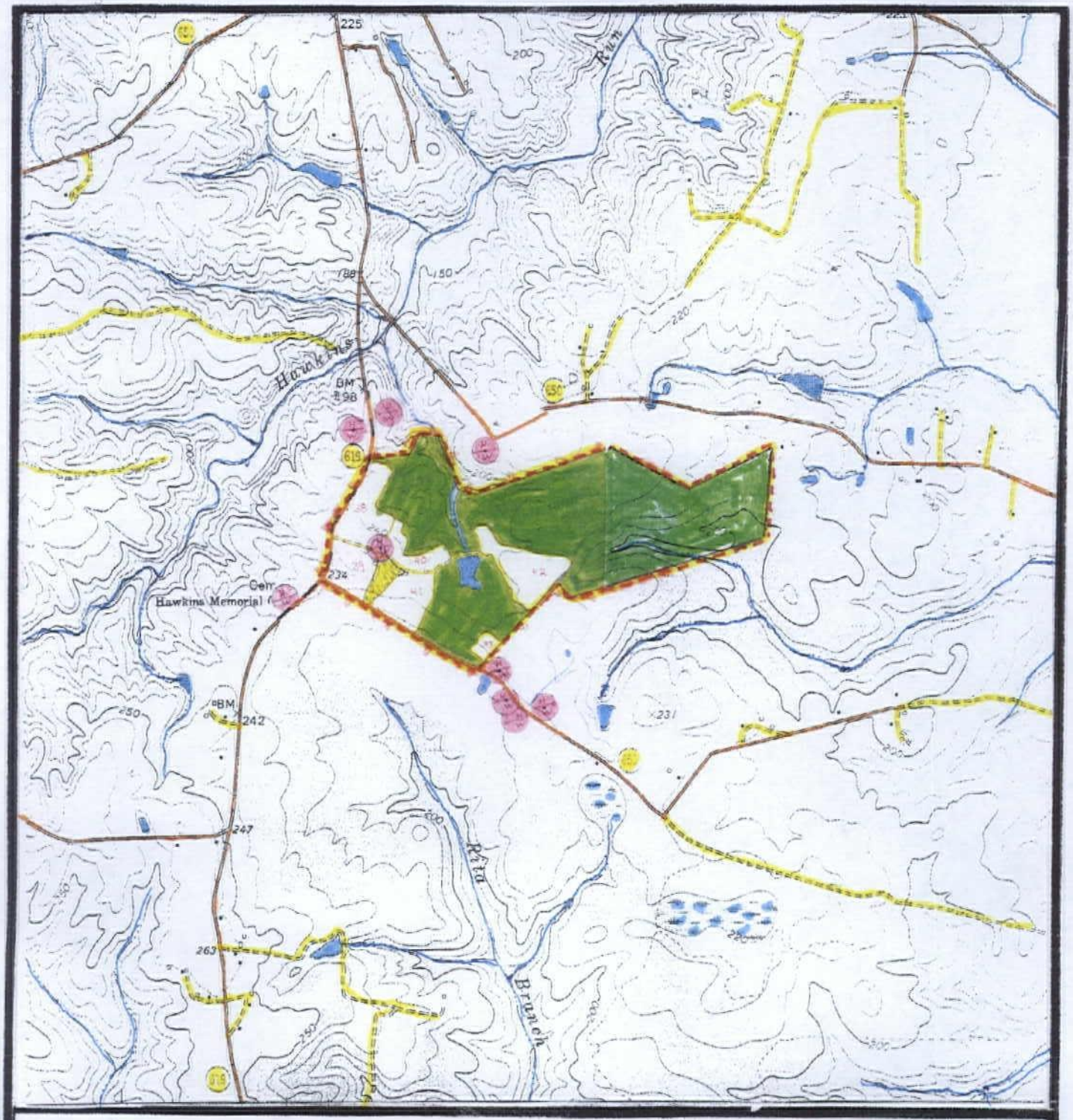
Scale: 1 inch = 2,000 feet DWWCB 33-37

TOPOGRAPHIC MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



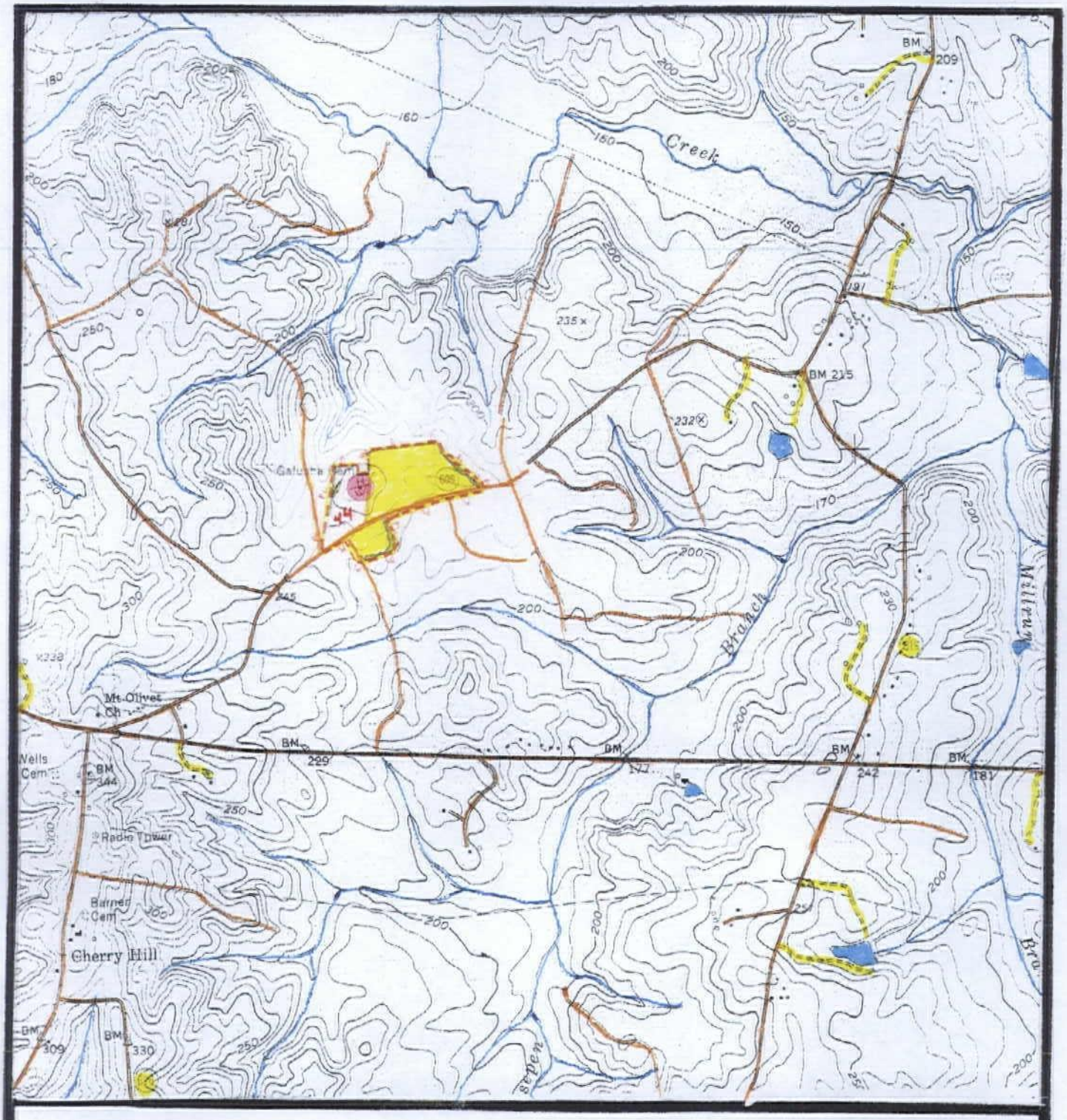
Scale: 1 inch = 2,000 feet DWWCB 38-43

TOPOGRAPHIC MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1 inch = 2,000 feet DWWCB 44

TOPOGRAPHIC MAP

N